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**Ranked Input and Output Data Used to Determine Impact
of New Source Performance Standards for Particulate
Matter, Nitrogen Oxides, and Sulfur Oxides**

Research Corp. of New England, Wethersfield, Conn.

Prepared for

Environmental Protection Agency, Research Triangle Park, N.C.

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**RANKED INPUT
AND OUTPUT DATA
USED TO DETERMINE
IMPACT OF NEW SOURCE
PERFORMANCE STANDARDS
FOR PARTICULATE MATTER,
NITROGEN OXIDES,
AND SULFUR OXIDES**



**U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Air and Waste Management
Office of Air Quality Planning and Standards
Research Triangle Park, North Carolina 27711**

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16. ABSTRACT The purpose of this document is to present the results of a study to determine the impact of new source performance standards on nationwide emissions. The work presented covers 14 potential pollutants from approximately 200 source categories for the year 1985. The results are being used by EPA as input to the development of an overall standard setting strategy. The report contains information regarding controlled and uncontrolled emission factors, State emission limitations, industrial capacity, utilization, growth and retirement rates. The results of this study have been published as three volumes which encompass ten separate documents. This document contains Appendices D through G of Volume III.			
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by

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Contract No. 68-02-1382

EPA Project Officer: Gary D. McCutchen

Prepared for

**U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Air and Waste Management
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April 1977

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Publication No. EPA-450/3-76-019-b

FOREWORD

During 1974, two studies were initiated that ultimately resulted in the establishment of priorities for developing and promulgating New Source Performance Standards (NSPS). The procedures used to determine these priorities produced a great deal of information that is believed to be useful in the industries involved and, accordingly, is being published in this series of reports (EPA-450/3-76-017, EPA-450/3-76-018, EPA-450/3-76-019, and EPA-450/3-76-020). This information is organized as follows:

EPA-450/3-76-017 discusses (1) the mathematical model (Model IV) used to determine NSPS impacts over a 10-year period; (2) the methods used to attain input variables; and (3) the summary tables which are the heart of this study. Included in the summary tables are data related to (1) emission, growth, and replacement rates; (2) present and future production and capacity; (3) nationwide emissions; and (4) NSPS impact. These tables include information on 13 pollutants and nearly 200 stationary source categories.

EPA-450/3-76-018-a, -b, -c, -d, -e, and -f are the calculation sheets, showing how the input variables reported in EPA-450/3-76-017 were derived. All information sources, assumptions, and calculations are documented and explained. The appropriate worksheets are arranged alphabetically in the following volumes:

018-a - Stationary Combustion Sources

018-b - Chemical Processing Industries

018-c - Food and Agricultural Industries

018-d - Mineral Products Industries

018-e - Metallurgical Industries

018-f - Miscellaneous Sources (Evaporation Losses, Petroleum

Industry, Wood Products Industry, and Assembly Plants

The 018-a -f series is of interest only to those concerned with the detailed calculations used to determine the Model IV input variables.

EPA-450/3-76-019-a provides additional results and information produced during the priority study. Its major purpose is to describe the computer program used to rank all the Model IV input and output variables by pollutant (these rankings are reported in 019-b and -c). In addition, it contains (1) summaries of the control systems considered "best" for each source, (2) equipment retirement ages, and (3) emission trends for each source category.

EPA-450/3-76-019-b and c present the computer-generated ranked data for each pollutant. Ranking is from highest to lowest for each of the 21 variables, e.g., A (nationwide capacity) and E_U (uncontrolled emission rate). Volume 019-b contains ranked data for particulate, nitrogen oxide (NO_x), and sulfur oxide (SO_x) sources. In Volume 019-c, the remaining pollutant sources are ranked: hydrocarbons, carbon monoxide (CO), fluorides, hazardous material, acid mist, lead, ammonia, sulfides, chlorine, and trace metals.

EPA-450/3-76-020, the final document in this series, takes the objective impact values from EPA-450/3-76-017, adds subjective judgements, and uses these combined criteria to produce a priority list for NSPS development. The report then calculates nationwide emission trends over the next 15 years for each criteria pollutant (particulate, SO_x , NO_x , hydrocarbons, and CO) based on a series of scenarios (e.g., no NSPS, 20 NSPS per year, etc.)

In summary, documents EPA-450/3-76-017 and 020 present the results of this study. Each stands alone, but they also complement each other, with 020 building on the results of 017. The remaining documents (018-a -f and 019-a -c) present additional and/or more detailed information derived from the impact and priority studies.

RANKED DATA FOR PARTICULATES

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E U	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C 1985
			ALLOWABLE S	E N		P B	P C	UNITS/YR	A 1975	B 1985	
BLR >250 E6 BTU/HR EXIST. NEW.	0.58 0.58	LB/E6 BTU	0.277 0.100	0.050	3.110	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
BOILERS 3-10 MM BTU/HR	0.25	LB/E6 BTU	0.250	0.048	0.250	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
BOILERS <3 MM BTU/HR 0.30	0.30	LB/E6 BTU	0.039	0.000	0.039	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
PLYWOOD - VENEER	0.95	LB/TON	0.004	0.001	0.132	0.050S	0.025C	E6 TONS	22600.	11300.	6330.
BLR 10-250 E6 BTU/HR EXIST. NEW.	0.32 0.32	LB/E6 BTU	0.383 0.334	0.127	2.020	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
PETROLEUM REFINRY FCCU EXIST. NEW.	0.85 0.85	LB/TON	0.066 0.017	0.010	0.242	0.031S	0.042C	E6 TONS	1506.	467.	766.
ASPHALT BATCHING EXIST. NEW.	0.47 0.47	LB/TON	0.376 0.169	0.045	15.000	0.008S	0.050S	E6 TONS	1480.	118.	740.
STONE QUARRYING AND PROCESSING	0.80	LB/TON	0.379	0.155	15.500	0.050S	0.033S	E6 TONS	1225.	613.	404.
SAND AND GRAVEL PROCESSING	0.40	LB/TON	0.100	0.005	0.100	0.050S	0.000S	E6 TONS	1142.	571.	0.0
CONCRETE BATCHING	1.00	LB/TON	0.098	0.010	0.100	0.033S	0.030C	E6 TONS	327.	108.	112.
GRAIN HANDLING - SCREENING	0.82	LB/TON	1.610	0.060	6.000	0.037S	0.015C	E6 TONS	240.	88.7	38.5
GRAIN HANDLING - PROCESSING	0.82	LB/TON	2.160	0.030	6.000	0.037S	0.015C	E6 TONS	240.	88.7	38.5
GRAIN HANDLING - TRANSFER	0.82	LB/TON	1.940	0.200	20.000	0.037S	0.015C	E6 TONS	240.	88.7	38.5
WOOD WASTE BOILERS	0.58	LB/TON	3.010	0.280	27.500	0.050S	0.012C	E6 TONS	163.	81.4	20.6
COAL CLEANING - THERMAL DRYING EXIST. NEW.	0.59 0.59	LB/TON	0.410 0.340	0.099	19.800	0.050S	0.029S	E6 TONS	133.	66.5	38.6
IRON AND STEEL - BLAST FURNACE	0.90	LB/TON	1.500	1.500	150.000	0.028S	0.029S	E6 TONS	119.	33.2	34.4
CEMENT PLANTS EXIST. NEW.	0.90 0.90	LB/TON	206.000 0.640	0.450	301.000	0.025S	0.030C	E6 TONS	103.	25.8	35.4
IRON & STEEL - BOF EXIST. NEW.	0.90 0.90	LB/TON	0.208 0.150	0.150	51.000	0.028S	0.046S	E6 TONS	88.9	24.9	42.7

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			ALLOWABLE E S	E N		P B	P C	A 1975	B 1985	C 1985	
IRON AND STEEL - SCARFING	0.90	LB/TON	0.138	0.030	3.000	0.028S	0.029S	E6 TONS	87.3	24.4	25.3
LEAD ACID BATTERY	0.76	LB/PRD UNIT	0.032	0.000	0.130	0.040S	0.050C	E6 PU	80.0	32.0	50.3
COKE OVENS - BY PRODUCT	0.93	LB/TON	4.900	0.430	4.900	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
IRON AND STEEL - SINTERING	0.90	LB/TON	0.500	0.150	42.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2
ORCHARD HEATERS	1.00	LB/TON	0.007	0.000	0.007	0.033S	0.028S	E6 TONS	60.0	19.8	16.8
GAS TURBINE ENGINES	0.22	LB/TON	3.740	0.000	3.740	0.020S	0.270S	E6 TONS	54.1	10.8	146.0
GRAIN HANDLING - DRYING	0.82	LB/TON	0.770	0.060	6.000	0.037S	0.015C	E6 TONS	47.9	17.7	7.7
PHOSPHATE ROCK - DRYING/HANDLING	0.87	LB/TON	0.340	0.122	14.000	0.050S	0.041S	E6 TONS	43.5	21.9	18.0
PULPBOARD	0.98	LB/TON	0.096	0.014	0.096	0.031S	0.015C	E6 TONS	37.2	11.5	6.0
IRON & STEEL - EAF	0.90	LB/TON	4.490	0.480	28.300	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
EXIST. NEW.	0.90		1.000								
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	2.770	1.320	130.500	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
GLASS - SODALINE	0.80	LB/TON	1.890	0.020	2.000	0.033S	0.028S	E6 TONS	34.4	11.4	9.6
WOOD PULPING KRAFT	0.98	LB/TON	5.630	5.630	198.000	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
INDUSTRIAL/COMMERCIAL INCINERATION	0.38	LB/TON	6.470	0.065	6.470	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
MUNICIPAL INCINERATION	0.56	LB/TON	4.600	0.990	19.700	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
EXIST. NEW.	0.56		1.460								
STEEL FOUNDRIES	0.90	LB/TON	2.200	0.104	10.400	0.028S	0.073S	E6 TONS	29.3	8.2	21.4
LIME PROCESSING	0.90	LB/TON	3.400	0.203	203.000	0.050S	0.050C	E6 TONS	26.1	13.1	16.4
PHOSPHATE ROCK - GRINDING	0.94	LB/TON	0.940	0.002	2.000	0.050S	0.043S	E6 TONS	25.7	12.8	11.1
FEED MILLING - OTHER	0.50	LB/TON	2.060	0.100	20.000	0.029S	0.035C	E6 TONS	21.4	6.2	8.8
INTERNAL COMB ENGS DIESEL DUALFUEL	0.58	LB/TON	5.410	4.610	5.410	0.020S	0.028S	E6 TONS	18.0	3.6	5.0

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			UNITS/YR	INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E S	E N		P	B	P		A	B	C
GYPSUM	0.80	LB/TON	1.510	0.302	131.700	0.029S	0.006S	0.006S	E6 TONS	15.9	4.7	0.91
CERAMIC CLAY	0.80	LB/TON	2.750	1.755	175.500	0.033S	0.042S	0.042S	E6 TONS	13.9	4.6	5.8
COTTON GINNING	1.00	LB/BALE	2.090	0.480	12.000	0.042S	0.013S	0.013S	E6 BALE	10.8	4.5	1.4
FERTILIZER - NITRATES	0.77	LB/TON	1.640	0.254	12.720	0.045S	0.070C	0.070C	E6 TONS	10.5	4.7	10.2
FERTILIZER - AMMONIUM SULFATE	0.84	LB/TON	2.040	1.000	20.000	0.045S	0.116C	0.116C	E6 TONS	9.3	4.2	18.5
MINERAL WOOL	0.82	LB/TON	4.270	3.630	32.400	0.029S	0.020S	0.020S	E6 TONS	8.4	2.5	1.7
CAST IRON FOUNDRY - ELEC. FURN.	0.93	LB/TON	4.500	0.045	4.500	0.028S	0.136S	0.136S	E6 TONS	8.1	2.3	11.0
FLY ASH SINTERING	0.86	LB/TON	0.400	0.110	110.000	0.033S	0.055C	0.055C	E6 TONS	7.7	2.5	5.4
BEER PROCESSING	0.81	LB/TON	2.090	0.270	5.450	0.040S	0.070C	0.070C	E6 TONS	7.2	2.9	7.0
SUGAR CANE - BAGASSE BURNING	0.75	LB/TON	3.700	2.200	22.000	0.050S	0.015S	0.015S	E6 TONS	7.0	3.5	1.0
VEGETABLE OIL PRODUCTION	0.92	LB/TON	8.630	0.630	63.000	0.028S	0.027S	0.027S	E6 TONS	6.5	1.8	1.8
ASPHALT SATURATOR	0.90	LB/TON	1.330	0.073	7.300	0.042S	0.025S	0.025S	E6 TONS	6.3	2.6	1.6
PRIMARY ALUMINUM SMELTERS	0.92	LB/TON	5.820	1.800	92.000	0.035S	0.075C	0.075C	E6 TONS	6.0	2.1	6.4
SODIUM CARBONATE - NATURAL	0.87	LB/TON	1.160	0.450	90.000	0.045S	0.130C	0.130C	E6 TONS	5.8	2.6	13.8
PAINT MANUFACTURING	0.83	LB/TON	1.000	0.001	1.000	0.067S	0.026C	0.026C	E6 TONS	4.9	3.3	1.5
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	1.180	0.000	1.180	0.020S	0.145S	0.145S	E6 TONS	4.4	0.88	6.4
STARCH	0.83	LB/TON	2.000	0.020	8.000	0.045S	0.018C	0.018C	E6 TONS	4.3	1.9	0.83
FEED MILLING - ALFALFA DEHYDR.	0.50	LB/TON	2.060	0.250	50.000	0.029S	0.035C	0.035C	E6 TONS	4.1	1.2	1.7
SMOKED MEAT	0.81	LB/TON	0.300	0.100	0.300	0.040S	0.017S	0.017S	E6 TONS	3.6	1.4	0.61
ASPHALT BLOWING	0.90	LB/TON	1.180	0.042	4.200	0.042S	0.025S	0.025S	E6 TONS	3.1	1.3	0.79
FERTILIZER - DAP	0.89	LB/TON	3.530	1.640	82.000	0.045S	0.054S	0.054S	E6 TONS	3.1	1.4	1.7

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION			C 1985
			ALLOWABLE E S	EMISSION E N	UNCONT E U	P B	P C	UNITS/YR	A 1975	B 1985		
POLYVINYL CHLORIDE	0.82	LB/TON	3.180	0.350	35.000	0.000S	0.078C	E6 TONS	2.7	0.0055	3.1	
DEEP FAT FRYING	0.81	LB/TON	7.130	0.119	11.900	0.028S	0.043C	E6 TONS	2.5	0.74	1.4	
PHOSPHATE ROCK - CALCINING	0.90	LB/TON	0.960	0.400	40.000	0.050S	0.048S	E6 TONS	2.5	1.3	1.2	
DETERGENT	0.90	LB/TON	1.500	0.450	90.000	0.000S	0.035C	E6 TONS	2.5	0.0	1.0	
PRIMARY COPPER	0.85	LB/TON	37.900	1.220	405.000	0.036S	0.030C	E6 TONS	2.4	0.87	0.83	
WOOD PULPING SULFITE	0.93	LB/TON	3.000	3.000	24.000	0.031S	0.012C	E6 TONS	2.4	0.74	0.30	
STYRENE - BUTADIENE RUBBER	0.75	LB/TON	0.700	0.120	0.700	0.003S	0.020C	E6 TONS	2.3	0.070	0.51	
SYNTHETIC FIBER - DACRON	0.68	LB/TON	1.580	0.350	7.000	0.045S	0.164C	E6 TONS	2.3	1.0	8.2	
CARBON BLACK - FURNACE PROCESS	0.77	LB/TON	3.100	2.200	220.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56	
SECONDARY COPPER - SMELTING	0.82	LB/TON	3.470	0.338	84.600	0.035S	0.037C	E6 TONS	1.8	0.64	0.82	
EXPLOSIVES - HIGH	0.83	LB/TON	1.550	1.350	50.400	0.045S	0.094C	E6 TONS	1.8	0.83	2.7	
SYNTHETIC FIBER - NYLON	0.72	LB/TON	1.530	0.750	15.000	0.045S	0.127C	E6 TONS	1.7	0.77	4.0	
POLYPROPYLENE	0.78	LB/TON	2.670	0.030	3.000	0.003S	0.150C	E6 TONS	1.6	0.048	4.9	
FERROALLOY - SUBMERGED ARC FURNACE	0.90	LB/TON	22.800	4.560	456.000	0.028S	0.015C	E6 TONS	1.6	0.44	0.25	
COFFEE ROASTING	0.85	LB/TON	0.794	0.440	7.300	0.040S	0.000S	E6 TONS	1.5	0.62	0.0	
SEC ALUMINUM - REVERB FURNACE	0.82	LB/TON	4.800	0.960	195.000	0.036S	0.047S	E6 TONS	1.4	0.51	0.67	
PHOSPHORIC ACID - THERMAL PROCESS	0.81	LB/TON	2.270	0.134	134.000	0.045S	0.014C	E6 TONS	1.4	0.63	0.21	
WHISKEY	0.95	LB/PRD UNIT	27.900	2.180	43.600	0.032S	0.060S	E6 PU	1.3	0.42	0.78	
PRIMARY ZINC SMELTERS EXIST.	0.83	LB/TON	3.860	1.670	1665.000	0.036S	0.035C	E6 TONS	1.3	0.47	0.53	
NEW FERTILIZER GTSP STORAGE	0.83	LB/TON	2.250									
0.76		LB/TON	1.110	0.022	2.170	0.045S	0.042C	E6 TONS	1.2	0.53	0.6C	
SLUDGE INCINERATION EXIST.	0.50	LB/TON	5.000	1.600	119.000	0.033S	0.250S	E6 TONS	1.2	0.39	2.9	
NEW	0.50	LB/TON	1.600									

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES			INDUSTRY		
			ALLOWABLE E S	E N	UNCENT E U	DECIMAL/YR P B	P C	UNITS/YR	A 1975	B 1985	C 1985
FIBERGLASS MFG.--WOOL PRODUCTS	0.70	LB/TON	8.640	8.640	96.000	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
SYNTHETIC RESINS - POLYESTER	0.68	LB/TON	4.100	0.350	7.000	0.045S	0.170C	E6 TONS	1.0	0.46	3.9
FRIT MANUFACTURING	0.80	LB/TON	5.800	1.780	17.800	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
CHARCOAL	0.85	LB/TON	19.500	3.500	352.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42
PRIMARY LEAD SMELTERS	0.99	LB/TON	3.060	1.190	790.000	0.036S	0.000	E6 TONS	0.76	0.28	0.0
EXIST. NEW	0.85		3.060								
CLAY SINTERING	0.80	LB/TON	2.410	0.026	26.000	0.033S	0.027S	E6 TONS	0.74	0.24	0.20
SECONDARY COPPER - HANDLING	0.82	LB/TON	6.640	0.848	212.000	0.035S	0.037C	E6 TONS	0.73	0.25	0.32
SECONDARY LEAD - REVERB	0.68	LB/TON	6.440	1.050	277.000	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
EXIST. NEW	0.68		1.250								
PERLITE	0.82	LB/TON	4.350	0.440	21.000	0.029S	0.036S	E6 TONS	0.65	0.19	0.23
MINING/MILLING LEAD ORE	0.92	LB/TON	4.170	2.090	4.170	0.050S	0.000	E6 TONS	0.62	0.31	0.0
SOAP	0.90	LB/TON	0.724	0.026	13.000	0.045S	0.000S	E6 TONS	0.55	0.25	0.0
FIBERGLASS MFG.--TEXTILE PRODUCTS	0.70	LB/TON	2.780	1.460	84.000	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
GLASS - OPAL	0.80	LB/TON	2.240	0.022	2.240	0.033S	0.028S	E6 TONS	0.46	0.15	0.13
HYDROFLUORIC ACID	0.98	LB/TON	35.000	35.000	700.000	0.045S	0.049S	E6 TONS	0.45	0.20	0.22
CASTABLE REFRACTORY	0.80	LB/TON	5.320	4.620	254.000	0.033S	0.043C	E6 TONS	0.39	0.13	0.20
SECONDARY ZINC - DISTILLATION	0.82	LB/TON	2.710	1.700	46.000	0.035S	0.039C	E6 TONS	0.38	0.13	0.18
BRASS & BRONZE SMELTING	0.80	LB/TON	3.250	0.280	70.000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
EXIST. NEW	0.80		1.200								
FISH MEAL PROCESSING	0.81	LB/TON	0.400	0.040	0.400	0.008S	0.000C	E6 TONS	0.36	0.029	0.0
SEC ALUMINUM - SWEAT FURNACE	0.68	LB/TON	7.360	1.980	33.000	0.036S	0.047S	E6 TONS	0.30	0.11	0.14
AUTOBODY INCINERATION	0.90	LB/PRD UNIT	1.970	0.540	2.000	0.039S	0.280S	E6 PU	0.29	0.11	0.82

PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C
			ALLOWABLE E S	EMISSION E N	UNCONT E U	P B	P C	A 1975	R 1985	
PET REF - PROC GAS COMB	0.85	LB/E6 BTU	20.000	3.000	20.000	0.031S	0.042C	0.23	0.070	0.12
SECONDARY ZINC - SWEATING	0.82	LB/TON	3.860	0.872	23.600	0.035S	0.039C	0.20	0.070	0.093
ANIMAL FEED DEFLURINATION	0.90	LB/TON	4.570	0.063	625.000	0.040S	0.000S	0.20	0.080	6.0
MIXED FUEL BOILERS - COAL & REFUSE	0.58	LB/TON	5.000	3.660	366.000	0.000S	17.290S	0.16	0.0	27.0
SECONDARY LEAD - BLAST	0.68	LB/TON	4.350	1.050	271.000	0.024S	0.032C	0.15	0.036	0.055
EXIST- NEW- PATHOLOGICAL INCINERATION	0.63	LB/TON	1.250	1.900	12.800	0.039S	0.026C	0.13	0.051	0.036
EXIST- NEW- SECONDARY LEAD - POT FURNACE	0.34	LB/TON	4.600 3.800	0.041	1.360	0.024S	0.032C	0.065	0.016	0.024
MIXED FUEL BOILERS - OIL & REFUSE	0.68	LB/TON	5.000	1.020	101.500	0.000S	17.290S	0.036	0.0	6.2
DIRECT FIRING OF HEATS	0.58	LB/TON	2445.000	195.600	2445.000	0.050S	0.033S	0.034	0.017	0.011
SEC MAGNESIUM	0.62	LB/TON	6.780	0.680	6.780	0.035S	0.016S	0.017	0.0061	0.0028
	0.82	LB/TON								

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	T E 1985	EMISSIONS			T N 1985	TONS/YEAR T-S-N 1985	I - E / E N S
				1000 TONS/YEAR T UE 1985	T S 1985	T N 1985			
BLR >250 E6 BTU/HR	43153.	2250.	1125.	12632.	2106.	1616.	490000.	0.500	
BOILERS .3-10 MM BTU/HR	1260.	827.	521.	521.	1260.	663.	597000.	0.808	
BOILERS <.3 MM BTU/HR	191.	144.	115.	115.	191.	115.	76300.	1.000	
PLYWOOD - VENEER	1814.	42.9	21.5	709.	55.0	32.4	22600.	0.675	
BLR 10-250 E6 BTU/HR	7255.	1197.	599.	3157.	1276.	856.	419000.	0.620	
PETROLEUM REFINRY FCCU	234.	42.2	29.1	107.	38.1	34.4	3600.	0.412	
ASPHALT BATCHING	7826.	131.	120.	4800.	154.	129.	25000.	0.734	
STONE QUARRYING AND PROCESSING	10101.	186.	92.9	3798.	247.	156.	91100.	0.591	
SAND AND GRAVEL PROCESSING	45.7	45.7	22.8	22.8	45.7	24.0	21600.	0.950	
CONCRETE BATCHING	21.9	16.0	10.7	10.9	21.5	11.8	9600.	0.898	
GRAIN HANDLING - SCREENING	684.	158.	99.6	371.	184.	103.	80700.	0.963	
GRAIN HANDLING - PROCESSING	684.	212.	134.	371.	246.	135.	111000.	0.986	
GRAIN HANDLING - TRANSFER	2280.	191.	120.	1238.	221.	130.	90600.	0.897	
WOOD WASTE BOILERS	1464.	142.	71.1	650.	160.	79.4	80800.	0.907	
COAL CLEANING - THERMAL DRYING	1002.	16.1	8.0	388.	18.6	11.1	7400.	0.709	
IRON AND STEEL - BLAST FURNACE	10335.	80.1	57.7	5769.	103.	103.	0.0	0.000	
CEMENT PLANTS	18749.	9548.	7161.	10464.	7179.	7173.	5200.	0.297	
IRON & STEEL - BRF	3020.	8.3	6.0	1469.	10.6	10.6	0.0	0.000	
IRON AND STEEL - SCRAPING	152.	5.4	3.9	84.9	7.0	4.6	2400.	0.783	
LEAD ACID BATTERY	6.4	0.97	0.58	2.4	1.6	0.59	990.	0.996	

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS							TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985			
COKE OVENS - BY PRODUCT									
IRON AND STEEL - SINTERING	189.	172.	124.	124.	189.	130.	59600.	0.912	
• ORCHARD HEATERS	1697.	15.7	11.3	947.	20.2	14.0	6200.	0.700	
• GAS TURBINE ENGINES	0.27	0.21	0.14	0.14	0.27	0.14	120.	1.000	
ELECTRIC UTILITIES	82.3	22.3	17.8	17.8	82.3	17.8	64500.	1.000	
GRAIN HANDLING - DRYING	137.	15.1	9.5	74.2	17.5	10.2	7300.	0.922	
PHOSPHATE ROCK - DRYING/HANDLING	377.	6.5	3.2	134.	9.2	5.4	3700.	0.641	
PULPBARD									
IRON & STEEL - EAF	2.0	1.7	1.2	1.2	2.0	1.3	700.	0.854	
BRICK & RELATED CLAY PRODUCTS	809.	74.2	53.4	337.	70.1	61.4	8600.	0.520	
GLASS - SODALIME	2367.	39.6	26.5	1249.	50.2	37.8	12400.	0.523	
WOOD PULPING KRAFT	35.3	26.0	17.4	18.5	33.3	17.6	15700.	0.989	
INDUSTRIAL/COMMERCIAL INCINERATION	3706.	93.5	64.5	2269.	105.	105.	0.0	0.000	
MUNICIPAL INCINERATION	114.	40.1	24.4	24.4	114.	25.3	88400.	0.990	
STEEL FOUNDRIES	262.	41.9	25.5	109.	36.8	33.2	3600.	0.322	
LIME PROCESSING	237.	29.0	20.9	98.7	50.2	22.3	27900.	0.953	
PHOSPHATE ROCK - GRINDING	3891.	40.0	20.0	1194.	65.2	22.7	42400.	0.940	
FEED MILLING - OTHER	34.5	11.4	5.7	12.1	16.2	5.7	10500.	0.998	
INTERNAL COMB ENGS DIESEL DUALFUEL	151.	11.0	7.8	75.9	15.5	8.2	7300.	0.951	
GYPSUM	36.1	28.2	22.5	22.5	36.1	34.1	2000.	0.148	
CERAMIC CLAY	886.	9.6	6.8	592.	10.2	7.5	2700.	0.800	
	1384.	15.3	10.2	653.	21.7	17.5	4100.	0.362	

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985				
COTTON GINNING	73.2	11.3	6.5	37.6	12.8	8.0	4700.	0.770	
FERTILIZER - NITRATES	101.	6.6	3.6	28.3	13.1	5.1	7900.	0.845	
FERTILIZER - AMMONIUM SULFATE	233.	7.9	4.4	42.8	23.8	13.9	9900.	0.510	
MINERAL WOOL	135.	14.8	10.4	79.1	17.7	16.6	1000.	0.150	
CAST IRON FOUNDRY - ELEC. FURN.	40.0	16.9	12.2	12.2	40.0	12.5	27500.	0.990	
FLY ASH SINTERING	621.	1.3	0.89	243.	2.3	1.3	990.	0.725	
BEER PROCESSING	31.3	6.1	3.7	9.5	12.0	4.7	7200.	0.871	
SUGAR CANE - BAGASSE BURNING	66.4	9.7	4.9	28.9	11.2	8.6	2500.	0.405	
VEGETABLE OIL PRODUCTION	240.	25.9	18.6	136.	32.9	19.7	13100.	0.927	
ASPHALT SATURATOR	25.8	3.8	2.2	12.0	4.7	2.3	2300.	0.945	
PRIMARY ALUMINUM SMELTERS	523.	16.1	10.4	165.	33.1	17.5	15600.	0.691	
SODIUM CARBONATE - NATURAL	764.	2.9	1.6	124.	9.8	4.8	5000.	0.612	
PAINT MANUFACTURING	2.7	2.0	0.68	0.68	2.7	0.68	1900.	0.999	
GAS TURBINE ENGINES GAS PIPELINE	5.4	2.2	1.8	1.8	5.4	1.8	3600.	1.000	
STARCH	16.9	3.5	1.9	7.8	4.2	2.0	2200.	0.990	
FEED MILLING - ALFALFA DEHYDR.	71.9	2.1	1.5	36.2	3.0	1.7	1200.	0.879	
SMOKED MEAT	0.51	0.44	0.26	0.26	0.51	0.35	160.	0.667	
ASPHALT BLOWING	7.4	1.7	0.97	3.5	2.1	1.0	1000.	0.964	
FERTILIZER - DAP	176.	4.9	2.7	63.0	7.6	5.0	2600.	0.535	
POLYVINYL CHLORIDE	83.3	3.6	3.6	39.2	7.6	4.0	3500.	0.890	

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS							TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T F 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985			
DEEP FAT FRYING									
PHOSPHATE ROCK - CALCINING	19.4	7.6	5.5	9.2	11.6	5.6	6000.	0.983	
DETERGENT	67.9	1.1	0.55	22.9	1.6	1.0	620.	0.583	
PRIMARY COPPER	143.	1.7	1.7	101.	2.4	1.9	480.	0.700	
WOOD PULPING SULFITE	557.	38.8	24.8	265.	52.2	25.7	26400.	0.968	
STYRENE - BUTADIENE RUBBER	31.2	3.5	2.4	19.5	4.0	4.0	0.0	0.000	
SYNTHETIC FIBER - DACRON	0.75	0.62	0.60	0.60	0.75	0.62	120.	0.829	
CARBON BLACK - FURNACE PROCESS	24.9	1.2	0.68	3.0	5.6	1.8	3800.	0.778	
SECONDARY COPPER - SMELTING	215.	2.4	1.3	92.6	3.0	2.5	500.	0.290	
EXPLOSIVES - HIGH	92.2	2.6	1.7	41.5	3.8	1.9	1800.	0.903	
SYNTHETIC FIBER - NYLON	94.4	1.2	0.65	21.1	2.9	2.6	290.	0.129	
POLYPROPYLENE	30.6	0.94	0.52	5.1	3.1	1.8	1300.	0.510	
FERRALLOY - SUBMERGED ARC FURNACE	7.6	1.7	1.6	1.8	6.7	1.7	5000.	0.989	
COFFEE ROASTING	372.	16.0	11.5	230.	18.6	12.9	5600.	0.800	
SEC ALUMINUM - REVERB FURNACE	4.8	0.52	0.31	2.9	0.52	0.43	90.0	0.446	
PHOSPHORIC ACID - THERMAL PROCESS	167.	2.8	1.8	73.1	4.1	2.3	1800.	0.800	
WHISKEY	86.7	1.3	0.70	41.5	1.5	0.75	720.	0.941	
PRIMARY ZINC SMELTERS	43.2	17.3	11.8	18.4	27.6	13.0	14600.	0.922	
FERTILIZER GTSP STORAGE	1267.	2.1	1.3	575.	2.3	2.0	240.	0.258	
SLUDGE INCINERATION	1.5	0.50	0.27	0.54	0.75	0.28	460.	0.980	
	122.	1.5	0.98	23.4	2.3	2.3	0.0	-0.000	

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				T N 1985	TONS/YEAR T-S N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985				
FIBERGLASS MFG.--WOOL PRODUCTS									
55.0		3.3	1.2	13.7	4.9	4.9	0.0	0.000	
SYNTHETIC RESINS - POLYESTER									
11.7		1.4	0.78	1.3	6.8	1.3	5500.	0.915	
FRIT MANUFACTURING									
8.2		1.9	1.3	4.0	2.7	1.7	940.	0.693	
CHARCOAL									
181.		6.6	3.6	65.4	10.0	4.8	5200.	0.821	
PRIMARY LEAD SMELTERS									
272.		1.2	0.64	164.	1.1	0.80	250.	0.611	
CLAY SINTERING									
9.8		0.71	0.48	5.2	0.91	0.48	420.	0.989	
SECONDARY COPPER - HANDLING									
91.2		2.0	1.3	41.1	2.9	1.5	1300.	0.872	
SECONDARY LEAD - REVERB									
92.0		1.6	1.2	51.0	1.4	1.3	20.0	0.160	
PERLITE									
7.6		1.2	0.81	3.9	1.6	0.96	600.	0.807	
MINING/MILLING LEAD ORE									
1.2		1.2	0.60	0.60	1.2	0.90	290.	0.499	
SOAP									
3.2		0.18	0.099	1.8	0.18	0.10	70.0	0.964	
FIBERGLASS MFG.--TEXTILE PRODUCTS									
48.2		0.50	0.19	5.7	1.6	0.93	660.	0.475	
GLASS - 6PAL									
0.52		0.41	0.27	0.27	0.52	0.28	240.	0.990	
HYDROFLUORIC ACID									
229.		7.7	4.2	84.7	11.5	11.5	0.0	0.000	
CASTABLE REFRACTORY									
59.9		0.82	0.55	26.3	1.3	1.2	90.0	0.132	
SECONDARY ZINC - DISTILLATION									
10.5		0.42	0.27	4.7	0.62	0.49	120.	0.373	
BRASS & BRONZE SMELTING									
10.5		0.49	0.31	6.7	0.38	0.33	40.0	0.767	
FISH MEAL PROCESSING									
0.058		0.058	0.054	0.054	0.058	0.054	4.2	0.900	
SEC ALUMINUM - SWEAT FURNACE									
5.0		0.76	0.49	2.2	1.1	0.65	450.	0.731	
AUTOBODY INCINERATION									
1.0		0.26	0.16	0.16	0.99	0.39	600.	0.726	

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C
			ALLOWABLE E S	UNCENT E N	U	P B	P C	A 1975	B 1985	
BLR >250 E6 BTU/HR EXIST.	0.58	LB/E6 BTU	0.277	0.050	3.110	0.050S	0.055C	28011.	14006.	19836.
NEW	0.58		0.100							
PLYWOOD - VENEER										
BOILERS .3-10 MM BTU/HR 0.95		LB/TON	0.004	0.001	0.132	0.050S	0.025C	22600.	11300.	6330.
0.25										
BLR 10-250 E6 BTU/HR EXIST.	0.25	LB/E6 BTU	0.250	0.048	0.250	0.037S	0.043C	26471.	9794.	13857.
NEW	0.32		0.383	0.127	2.020	0.050S	0.014C	19534.	9767.	2914.
BOILERS <.3 MM BTU/HR 0.32		LB/E6 BTU	0.334							
0.30										
STONE QUARRYING AND PROCESSING 0.80		LB/E6 BTU	0.039	0.000	0.039	0.020S	0.029C	24572.	4914.	8131.
0.80		LB/TON	0.379	0.155	15.500	0.050S	0.033S	1225.	613.	404.
SAND AND GRAVEL PROCESSING 0.80		LB/TON	0.100	0.005	0.100	0.050S	0.000S	1142.	571.	0.0
PETROLEUM REFINRY FCCU EXIST.	0.85	LB/TON	0.066	0.010	0.242	0.031S	0.042C	1506.	467.	766.
NEW	0.85		0.017							
ASPHALT BATCHING EXIST.	0.47	LB/TON	0.376	0.045	15.000	0.008S	0.050S	1480.	118.	740.
NEW	0.47		0.169							
CONCRETE BATCHING										
GRAIN HANDLING - SCREENING 1.00		LB/TON	0.098	0.010	0.100	0.033S	0.030C	327.	108.	112.
0.82		LB/TON	1.610	0.060	6.000	0.037S	0.015C	240.	88.7	38.5
GRAIN HANDLING - PROCESSING 0.82		LB/TON	2.160	0.030	6.000	0.037S	0.015C	240.	88.7	38.5
0.82		LB/TON	1.940	0.200	20.000	0.037S	0.015C	240.	88.7	38.5
WROD WASTE BOILERS 0.58		LB/TON	3.010	0.280	27.500	0.050S	0.012C	163.	81.4	20.6
0.59		LB/TON	0.410	0.099	19.800	0.050S	0.029S	133.	66.5	38.6
EXIST.	0.59		0.340							
IRON AND STEEL - BLAST FURNACE 0.90		LB/TON	1.500	1.500	150.000	0.028S	0.029S	119.	33.2	34.4
0.90		LB/PRD UNT	0.032	0.000	0.130	0.040S	0.050C	80.0	32.0	50.3
LEAD ACID BATTERY										
CEMENT PLANTS EXIST.	0.90	LB/TON	206.000	0.450	301.000	0.025S	0.030C	103.	25.8	35.4
NEW	0.90		0.640							

PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E _S	E _N		P _B	P _C	UNITS/YR	A 1975	B 1985	
IRON & STEEL - BOF EXIST. NEW	0.90 0.90	LB/TON	0.208 0.150	0.150	51.000	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
IRON AND STEEL - SCARFING 0.90	0.90	LB/TON	0.138	0.030	3.000	0.028S	0.029S	E6 TONS	87.3	24.4	25.3
PHOSPHATE ROCK - DRYING/HANDLING 0.87	0.87	LB/TON	0.340	0.122	14.000	0.050S	0.041S	E6 TONS	43.9	21.9	18.0
COKE OVENS - BY PRODUCT 0.93	0.93	LB/TON	4.900	0.430	4.900	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
ORCHARD HEATERS 1.00	1.00	LB/TON	0.007	0.000	0.007	0.033S	0.028S	E6 TONS	60.0	19.8	16.8
IRON AND STEEL - SINTERING 0.90	0.90	LB/TON	0.500	0.150	42.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2
GRAIN HANDLING - DRYING 0.82	0.82	LB/TON	0.770	0.060	6.000	0.037S	0.015C	E6 TONS	47.9	17.7	7.7
LIME PROCESSING 0.90	0.90	LB/TON	3.400	0.203	203.000	0.050S	0.050C	E6 TONS	26.1	13.1	16.4
PHOSPHATE ROCK - GRINDING 0.94	0.94	LB/TON	0.940	0.002	2.000	0.050S	0.043S	E6 TONS	25.7	12.8	11.1
INDUSTRIAL/COMMERCIAL INCINERATION 0.38	0.38	LB TON	6.470	0.065	6.470	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
MUNICIPAL INCINERATION EXIST. NEW	0.56 0.56	LB/TON	4.600 1.460	0.990	19.700	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
BRICK & RELATED CLAY PRODUCTS 0.80	0.80	LB/TON	2.770	1.320	130.500	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
FULPHOARD 0.98	0.98	LB/TON	0.096	0.014	0.096	0.031S	0.015C	E6 TONS	37.2	11.5	6.0
GLASS - SODALIME 0.80	0.80	LB/TON	1.890	0.020	2.000	0.033S	0.028S	E6 TONS	34.4	11.4	9.6
GAS TURBINE ENGINES ELECTRIC UTILITIES 0.22	0.22	LB/TON	3.740	0.000	3.740	0.020S	0.270S	E6 TONS	54.1	10.8	146.
WOOD PULPING KRAFT 0.98	0.98	LB/TON	5.630	5.630	198.000	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
IRON & STEEL - EAF EXIST. NEW	0.90 0.90	LB/TON	4.490 1.000	0.480	28.300	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
STEEL FOUNDRIES 0.90	0.90	LB/TON	2.200	0.104	10.400	0.028S	0.073S	E6 TONS	29.3	8.2	21.4
FEED MILLING - OTHER 0.50	0.50	LB/TON	2.060	0.100	20.000	0.029S	0.035C	E6 TONS	21.4	6.2	8.8
FERTILIZER - NITRATES 0.77	0.77	LB/TON	1.640	0.254	12.720	0.045S	0.070C	E6 TONS	10.5	4.7	10.2

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES			INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N	UNCENT E U	P B	P C	A 1975	B 1985	C 1985
GYPSUM										
CERAMIC CLAY	0.80	LB/TON	1.510	0.302	131.700	0.029S	0.006S	15.9	4.7	0.91
COTTON GINNING	0.80	LB/TON	2.750	1.755	175.500	0.033S	0.042S	13.9	4.6	5.8
FERTILIZER - AMMONIUM SULFATE	1.00	LB/BALE	2.090	0.480	12.000	0.042S	0.013S	10.8	4.5	1.4
INTERNAL COMB ENGS DIESEL DUALFUEL	0.84	LB/TON	2.040	1.000	20.000	0.045S	0.116C	9.3	4.2	18.5
SUGAR CANE - BAGASSE BURNING	0.58	LB/TON	5.410	4.610	5.410	0.020S	0.028S	18.0	3.6	5.0
PAINT MANUFACTURING	0.75	LB/TON	3.700	2.200	22.000	0.050S	0.015S	7.0	3.5	1.0
BEER PROCESSING	0.83	LB/TON	1.000	0.001	1.000	0.067S	0.026C	4.9	3.3	1.5
ASPHALT SATURATOR	0.81	LB/TON	2.090	0.270	5.450	0.040S	0.070C	7.2	2.9	7.0
SODIUM CARBONATE - NATURAL	0.90	LB/TON	1.330	0.073	7.300	0.042S	0.025S	6.3	2.6	1.6
FLY ASH SINTERING	0.87	LB/TON	1.160	0.450	90.000	0.045S	0.130C	5.8	2.6	13.8
MINERAL WOOL	0.86	LB/TON	0.400	0.110	110.000	0.033S	0.055C	7.7	2.5	5.4
CAST IRON FOUNDRY - ELEC. FURN.	0.82	LB/TON	4.270	3.630	32.400	0.029S	0.020S	8.4	2.5	1.7
PRIMARY ALUMINUM SMELTERS	0.93	LB/TON	4.500	0.045	4.500	0.028S	0.136S	8.1	2.3	11.0
STARCH	0.92	LB/TON	5.820	1.800	92.000	0.035S	0.075C	6.0	2.1	6.4
VEGETABLE OIL PRODUCTION	0.83	LB/TON	2.000	0.020	8.000	0.045S	0.018C	4.3	1.9	0.83
SMOKED MEAT	0.92	LB/TON	8.630	0.630	63.000	0.028S	0.027S	6.5	1.8	1.8
FERTILIZER - DAP	0.81	LB/TON	0.300	0.100	0.300	0.040S	0.017S	3.6	1.4	0.61
ASPHALT BLOWING	0.89	LB/TON	3.530	1.640	82.000	0.045S	0.054S	3.1	1.4	1.7
PHOSPHATE ROCK - CALCINING	0.90	LB/TON	1.180	0.042	4.200	0.042S	0.025S	3.1	1.3	0.79
FEED MILLING - ALFALFA DEHYDR.	0.90	LB/TON	0.960	0.400	40.000	0.050S	0.048S	2.5	1.3	1.2
	0.50	LB/TON	2.060	0.250	50.000	0.029S	0.035C	4.1	1.2	1.7

PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCON- T	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	E N		P B	P C	UNITS/YR	A 1975	B 1985	
SYNTHETIC FIBER - DACRON 0.68		LB/TON	1.580	0.350	7.000	0.045S	0.164C	E6 TONS	2.3	1.0	8.2
CARBON BLACK - FURNACE PROCESS 0.77		LB/TON	3.100	2.200	220.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56
GAS TURBINE ENGINES GAS PIPELINE 0.85		LB/TON	1.180	0.000	1.180	0.020S	0.145S	E6 TONS	4.4	0.88	6.4
PRIMARY COPPER	0.85	LB/TON	37.900	1.220	405.000	0.036S	0.030C	E6 TONS	2.4	0.87	0.83
EXPLOSIVES - HIGH	0.83	LB/TON	1.550	1.350	50.400	0.045S	0.094C	E6 TONS	1.8	0.83	2.7
SYNTHETIC FIBER - NYLON 0.72		LB/TON	1.530	0.750	15.000	0.045S	0.127C	E6 TONS	1.7	0.77	4.0
WOOD PULPING SULFITE 0.98		LB/TON	3.000	3.000	24.000	0.031S	0.012C	E6 TONS	2.4	0.74	0.30
DEEP FAT FRYING	0.81	LB/TON	7.130	0.119	11.900	0.023S	0.043C	E6 TONS	2.6	0.74	1.4
FIBERGLASS MFG.-Wool PRODUCTS 0.70		LB/TON	8.640	8.640	96.000	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
SECONDARY COPPER - SMELTING 0.82		LB/TON	3.470	0.338	84.600	0.035S	0.037C	E6 TONS	1.8	0.64	0.82
PHOSPHORIC ACID - THERMAL PROCESS 0.81		LB/TON	2.270	0.134	134.000	0.045S	0.014C	E6 TONS	1.4	0.63	0.21
COFFEE ROASTING	0.85	LB/TON	0.794	0.440	7.300	0.040S	0.000S	E6 TONS	1.5	0.62	0.0
FERTILIZER GTSP STORAGE 0.76		LB/TON	1.110	0.022	2.170	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
SEC ALUMINUM - REVERB FURNACE 0.82		LB/TON	4.800	0.960	195.000	0.036S	0.047S	E6 TONS	1.4	0.51	0.67
PRIMARY ZINC SMELTERS EXIST. NEW 0.83 0.87		LB/TON	3.860 2.250	1.670	1665.000	0.036S	0.035C	E6 TONS	1.3	0.47	0.53
SYNTHETIC RESINS - POLYESTER 0.68		LB/TON	4.100	0.350	7.000	0.045S	0.170C	E6 TONS	1.0	0.46	3.9
FERROALLOY - SUBMERGED ARC FURNACE 0.90		LB/TON	22.800	4.560	456.000	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
WHISKEY	0.95	LB/PRD UNT	27.900	2.180	43.600	0.032S	0.060S	E6 PU	1.3	0.42	0.78
SLUDGE INCINERATION EXIST. NEW 0.50 0.50		LB/TON	5.000 1.600	1.600	119.000	0.033S	0.250S	E6 TONS	1.2	0.39	2.9
CHARCOAL	0.85	LB/TON	19.500	3.500	352.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES DECIMAL/YR		UNITS/YR	INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E S	E N	UNCONT E U	P B	P C	A 1975	B 1985	C 1985
FIBERGLASS MFG.-TEXTILE PRODUCTS										
0.70 LB/TON			2.780	1.460	84.000	0.063S	0.122C	0.52	0.32	1.1
PINING/MILLING LEAD ORE										
0.92 LB/TON			4.170	2.090	4.170	0.050S	0.000	0.62	0.31	0.0
FRIT MANUFACTURING										
0.80 LB/TON			5.800	1.780	17.800	0.033S	0.037S	0.84	0.28	0.31
PRIMARY LEAD SMELTERS EXIST.			3.060	1.190	790.000	0.036S	0.000	0.76	0.28	0.0
NEW			3.060							
SECONDARY COPPER - HANDLING										
0.82 LB/TON			6.640	0.848	212.000	0.035S	0.037C	0.73	0.25	0.32
SOAP										
0.90 LB/TON			0.724	0.026	13.000	0.045S	0.000S	0.55	0.25	0.0
CLAY SINTERING										
0.80 LB/TON			2.410	0.026	26.000	0.033S	0.027S	0.74	0.24	0.20
HYDROFLUORIC ACID										
0.98 LB/TON			35.000	35.000	700.000	0.045S	0.049S	0.45	0.20	0.22
PERLITE										
0.82 LB/TON			4.350	0.840	21.000	0.029S	0.036S	0.65	0.19	0.23
SECONDARY LEAD - REVERB EXIST.			6.440	1.050	277.000	0.024S	0.032C	0.71	0.17	0.26
NEW			1.250							
GLASS - OPAL										
0.80 LB/TON			2.240	0.022	2.240	0.033S	0.028S	0.46	0.15	0.13
BRASS & BRONZE SMELTING EXIST.			3.250	0.280	70.000	0.036S	0.000S	0.38	0.17	0.0
NEW			1.200							
SECONDARY ZINC - DISTILLATION										
0.82 LB/TON			2.710	1.700	46.000	0.035S	0.039C	0.38	0.13	0.18
CASTABLE REFRACTORY										
0.80 LB/TON			5.320	4.620	254.000	0.033S	0.043C	0.39	0.13	0.20
AUTOBODY INCINERATION										
0.90 LB/PRD UNIT			1.970	0.540	2.000	0.039S	0.280S	0.29	0.11	0.82
SEC ALUMINUM - SWEAT FURNACE										
0.68 LB/TON			7.360	1.980	33.000	0.036S	0.047S	0.30	0.11	0.14
ANIMAL FEED DEFLOURINATION										
0.90 LB/TON			4.570	0.063	625.000	0.040S	0.000S	0.20	0.080	0.0
STYRENE - BUTADIENE RUBBER										
0.75 LB/TON			0.700	0.120	0.700	0.003S	0.020C	2.3	0.070	0.51
PET REF - PROC GAS COHB										
0.85 LB/E6 BTU			20.000	3.000	20.000	0.031S	0.042C	0.23	0.070	0.12
SECONDARY ZINC - SWEATING										
0.82 LB/TON			3.860	0.872	23.600	0.035S	0.039C	0.20	0.070	0.093

PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	UNCONT E U	GROWTH RATES DECIMAL/YR			UNITS/YR	INDUSTRY CAPACITY/PRODUCTION		C 1985
					P	B	C		A 1975	B 1985	
PATHOLOGICAL INCINERATION EXIST. NEW	0.34 0.34	LB/TON	4.600 3.800	12.800	0.039S	0.026C	0.038	E6 TONS	0.13	0.051	0.038
POLYPROPYLENE	0.78	LB/TON	2.670	3.000	0.003S	0.150C	4.9	E6 TONS	1.6	0.048	4.9
SECONDARY LEAD - BLAST EXIST. NEW	0.68 0.68	LB/TON	4.350 1.250	271.000	0.024S	0.032C	0.055	E6 TONS	0.15	0.036	0.055
FISH MEAL PROCESSING	0.81	LB/TON	0.400	0.400	0.008S	0.000C	0.0	E6 TONS	0.36	0.029	0.0
DIRECT FIRING OF HEATS	0.62	LB/TON	2445.000	2445.000	0.050S	0.033S	0.011	E6 TONS	0.034	0.017	0.011
SECONDARY LEAD - PBT FURNACE	0.68	LB/TON	1.360	1.360	0.024S	0.032C	0.024	E6 TONS	0.065	0.016	0.024
SEC MAGNESIUM	0.82	LB/TON	6.780	6.780	0.035S	0.016S	0.0028	E6 TONS	0.017	0.0061	0.0028
POLYVINYL CHLORIDE	0.82	LB/TON	3.180	35.000	0.000S	0.078C	3.1	E6 TONS	2.7	0.0055	3.1
MIXED FUEL BOILERS - COAL & REFUSE	0.58	LB/TON	5.000	366.000	0.000S	17.290S	27.0	E6 TONS	0.16	0.0	27.0
MIXED FUEL BOILERS - OIL & REFUSE	0.58	LB/TON	5.000	101.500	0.000S	17.290S	6.2	E6 TONS	0.036	0.0	6.2
DETERGENT	0.90	LB/TON	1.500	90.000	0.000S	0.035C	1.0	E6 TONS	2.5	0.0	1.0

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T-S-N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985	
BLR >250 E6 BTU/HR	43153.	2250.	1125.	12632.	2106.	1616.	0.500
PLYWOOD - VENEER	1814.	42.9	21.5	709.	55.0	32.4	0.675
BOILERS .3-10 MM BTU/HR	1260.	827.	521.	521.	1260.	663.	0.808
BLR 10-250 E6 BTU/HR	7255.	1197.	599.	3157.	1276.	856.	0.620
• BOILERS <.3 MM BTU/HR	191.	144.	115.	115.	191.	115.	1.000
STONE QUARRYING AND PROCESSING	10101.	186.	92.9	3798.	247.	156.	0.591
SAND AND GRAVEL PROCESSING	45.7	45.7	22.8	22.8	45.7	24.0	0.950
PETROLEUM REFINRY FCCU	234.	42.2	29.1	107.	38.1	34.4	0.412
ASPHALT BATCHING	7826.	131.	120.	4800.	154.	129.	0.734
CONCRETE BATCHING	21.9	16.0	10.7	10.9	21.5	11.8	0.898
GRAIN HANDLING - SCREENING	684.	158.	99.6	371.	184.	103.	0.963
GRAIN HANDLING - PROCESSING	684.	212.	134.	371.	246.	135.	0.986
GRAIN HANDLING - TRANSFER	2280.	191.	120.	1238.	221.	130.	0.897
WOOD WASTE BOILERS	1464.	142.	71.1	650.	160.	79.4	0.907
COAL CLEANING - THERMAL DRYING	1002.	16.1	8.0	388.	18.6	11.1	0.709
IRON AND STEEL - BLAST FURNACE	10336.	80.1	57.7	5769.	103.	103.	0.000
LEAD ACID BATTERY	6.4	0.97	0.58	2.4	1.6	0.59	0.906
CEMENT PLANTS	18749.	9548.	7161.	10464.	7179.	7173.	0.297
IRON & STEEL - BOF	3020.	8.3	6.0	1469.	10.6	10.6	0.000
IRON AND STEEL - SCARFING	152.	5.4	3.9	84.9	7.0	4.6	0.783

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T-S-N 1985	I - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985	
PHOSPHATE ROCK - DRYING/HANDLING							
COKE OVENS - BY PRODUCT	377.	6.5	3.2	134.	9.2	5.4	0.641
• BRICKARD HEATERS	189.	172.	124.	124.	189.	130.	0.912
IRON AND STEEL - SINTERING	0.27	0.21	0.14	0.14	0.27	0.14	1.000
GRAIN HANDLING - DRYING	1697.	15.7	11.3	947.	20.2	14.0	0.700
LIME PROCESSING	137.	15.1	9.5	74.2	17.5	10.2	0.922
PHOSPHATE ROCK - GRINDING	3891.	40.0	20.0	1194.	65.2	22.7	0.340
INDUSTRIAL/COMMERCIAL INCINERATION	34.5	11.4	5.7	12.1	16.2	5.7	0.998
MUNICIPAL INCINERATION	114.	40.1	24.4	24.4	114.	25.3	0.990
BRICK & RELATED CLAY PRODUCTS	262.	41.9	25.5	109.	36.8	33.2	0.322
PULPBOARD	2367.	39.6	26.5	1249.	50.2	37.8	0.523
GLASS - SODALIME	2.0	1.7	1.2	1.2	2.0	1.3	0.854
* GAS TURBINE ENGINES ELECTRIC UTILITIES	35.3	26.0	17.4	18.5	33.3	17.6	0.989
WOOD PULPING KRAFT	82.3	22.3	17.8	17.8	82.3	17.8	1.000
IRON & STEEL - EAF	3706.	93.5	64.5	2269.	105.	105.	0.000
STEEL FOUNDRIES	809.	74.2	53.4	337.	70.1	61.4	0.520
FEED MILLING - OTHER	237.	29.0	20.9	98.7	50.2	22.3	0.953
FERTILIZER - NITRATES	151.	11.0	7.8	75.9	15.5	8.2	0.951
GYPSON	101.	6.6	3.6	28.3	13.1	5.1	0.845
CERAMIC CLAY	886.	9.6	6.8	592.	10.2	7.5	0.800
	1384.	15.3	10.2	653.	21.7	17.5	0.362

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS				T N 1985	T S 1985	T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985					
COTTON GINNING	73.2	11.3	6.5	37.6	12.8	8.0	4700.	0.770	
FERTILIZER - AMMONIUM SULFATE	233.	7.9	4.4	42.8	23.8	13.9	9900.	0.510	
INTERNAL COMB ENGS DIESEL DUALFUEL	36.1	28.2	22.5	22.5	36.1	34.1	2000.	0.148	
SUGAR CANE - BAGASSE BURNING	66.4	9.7	4.9	28.9	11.2	8.6	2500.	0.405	
PAINT MANUFACTURING	2.7	2.0	0.68	0.68	2.7	0.68	1900.	0.999	
BEER PROCESSING	31.3	6.1	3.7	9.5	12.0	4.7	7200.	0.871	
ASPHALT SATURATOR	25.8	3.8	2.2	12.0	4.7	2.3	2300.	0.945	
SODIUM CARBONATE - NATURAL	764.	2.9	1.6	124.	9.8	4.8	5000.	0.612	
FLY ASH SINTERING	621.	1.3	0.89	243.	2.3	1.3	990.	0.725	
MINERAL WOOL	135.	14.8	10.4	79.1	17.7	16.6	1000.	0.150	
CAST IRON FOUNDRY - ELEC. FURN.	40.0	16.9	12.2	12.2	40.0	12.5	27500.	0.990	
PRIMARY ALUMINUM SMELTERS	523.	16.1	10.4	165.	33.1	17.5	15600.	0.691	
STARCH	16.9	3.5	1.9	7.8	4.2	2.0	2200.	0.990	
VEGETABLE OIL PRODUCTION	240.	25.9	18.6	136.	32.9	19.7	13100.	0.927	
SMOKED MEAT	0.51	0.44	0.26	0.26	0.51	0.35	160.	0.667	
FERTILIZER - DAP	176.	4.9	2.7	63.0	7.6	5.0	2600.	0.535	
ASPHALT BLOWING	7.4	1.7	0.97	3.5	2.1	1.0	1000.	0.964	
PHOSPHATE ROCK - CALCINING	67.9	1.1	0.55	22.9	1.6	1.0	620.	0.583	
FEED MILLING - ALFALFA DEHYDR.	71.9	2.1	1.5	36.2	3.0	1.7	1200.	0.879	
SYNTHETIC FIBER - DACRON	24.9	1.2	0.68	3.0	5.6	1.8	3800.	0.778	

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985	
CARBON BLACK - FURNACE PROCESS							
• GAS TURBINE ENGINES GAS PIPELINE	215.0	2.4	1.3	92.6	3.0	2.5	0.290
PRIMARY COPPER	5.4	2.2	1.8	1.8	5.4	1.8	1.000
EXPLOSIVES - HIGH	557.0	38.8	24.8	265.0	52.2	25.7	0.968
SYNTHETIC FIBER - NYLON	94.4	1.2	0.65	21.1	2.9	2.6	0.129
WOOD PULPING SULFITE	30.6	0.94	0.52	5.1	3.1	1.8	0.510
DEEP FAT FRYING	31.8	3.5	2.4	19.5	4.0	4.0	0.000
FIBERGLASS MFG.-WOOL PRODUCTS	19.4	7.6	5.5	9.2	11.6	5.6	0.983
SECONDARY COPPER - SMELTING	55.0	3.3	1.2	13.7	4.9	4.9	0.000
PHOSPHORIC ACID - THERMAL PROCESS	92.2	2.6	1.7	41.5	3.8	1.9	0.903
COFFEE ROASTING	86.7	1.3	0.70	41.5	1.5	0.75	0.941
FERTILIZER GISP STORAGE	4.8	0.52	0.31	2.9	0.52	0.43	0.446
SEC ALUMINUM - REVERB FURNACE	1.5	0.50	0.27	0.54	0.75	0.28	0.980
PRIMARY ZINC SMELTERS	167.0	2.8	1.8	73.1	4.1	2.3	0.800
SYNTHETIC RESINS - POLYESTER	1267.0	2.1	1.3	575.0	2.3	2.0	0.258
FERROALLOY - SUBMERGED ARC FURNACE	11.7	1.4	0.78	1.3	6.8	1.3	0.915
WHISKEY	372.0	16.0	11.5	230.0	18.6	12.9	0.800
SLUDGE INCINERATION	43.2	17.3	11.8	18.4	27.6	13.0	0.922
CHARCOAL	122.0	1.5	0.98	23.4	2.3	2.3	-0.000
FIBERGLASS MFG.-TEXTILE PRODUCTS	181.0	6.6	3.6	65.4	10.0	4.8	0.821
	48.2	0.50	0.19	5.7	1.6	0.93	0.475

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS			T N 1985	TONS/YEAR T-S-N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985			
MINING/MILLING LEAD ORE	1.2	1.2	0.60	0.60	1.2	0.90	290.	0.499
FRIT MANUFACTURING	8.2	1.9	1.3	4.0	2.7	1.7	940.	0.693
PRIMARY LEAD SMELTERS	272.	1.2	0.64	164.	1.1	0.80	250.	0.611
SECONDARY COPPER - HANDLING	91.2	2.0	1.3	41.1	2.9	1.5	1300.	0.872
SOAP	3.2	0.18	0.099	1.8	0.18	0.10	70.0	0.964
CLAY SINTERING	9.8	0.71	0.48	5.2	0.91	0.48	420.	0.989
HYDROFLUORIC ACID	229.	7.7	4.2	84.7	11.5	11.5	0.0	0.000
PERLITE	7.6	1.2	0.81	3.9	1.6	0.96	600.	0.807
SECONDARY LEAD - REVERB	92.0	1.6	1.2	51.0	1.4	1.3	20.0	0.160
GLASS - OPAL	0.52	0.41	0.27	0.27	0.52	0.28	240.	0.990
BRASS & BRONZE SMELTING	10.5	0.49	0.31	6.7	0.38	0.33	40.0	0.767
SECONDARY ZINC - DISTILLATION	10.5	0.42	0.27	4.7	0.62	0.49	120.	0.373
CASTABLE REFRACTORY	59.9	0.82	0.55	26.3	1.3	1.2	90.0	0.132
AUTOBODY INCINERATION	1.0	0.26	0.16	0.16	0.99	0.39	600.	0.726
SEC ALUMINUM - SWEAT FURNACE	5.0	0.76	0.49	2.2	1.1	0.65	450.	0.731
ANIMAL FEED DEFLUORINATION	56.2	0.41	0.25	33.8	0.41	0.25	160.	0.986
STYRENE - BUTADIENE RUBBER	0.75	0.62	0.60	0.60	0.75	0.62	120.	0.829
PET REF - PROC GAS COMB	2.9	1.9	1.3	1.3	2.9	1.6	1300.	0.850
SECONDARY ZINC - SWEATING	2.8	0.32	0.21	1.3	0.46	0.26	190.	0.774
PATHOLOGICAL INCINERATION	0.37	0.10	0.062	0.17	0.12	0.091	20.0	0.500

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS						TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
POLYPROPYLENE	7.6	1.7	1.6	1.8	6.7	1.7	5000.	0.989
SECONDARY LEAD - BLAST								
FISH MEAL PROCESSING	18.7	0.22	0.17	10.4	0.20	0.20	6.1	0.160
DIRECT FIRING OF MEATS	0.058	0.058	0.054	0.054	0.058	0.054	4.2	0.900
SECONDARY LEAD - POT FURNACE	34.0	25.5	12.8	12.8	34.0	14.5	19500.	0.920
SEC MAGNESIUM	0.041	0.030	0.023	0.023	0.041	0.023	10.0	0.970
POLYVINYL CHLORIDE	0.056	0.049	0.032	0.032	0.056	0.034	20.0	0.900
MIXED FUEL BOILERS - COAL & REFUSE	83.3	3.6	3.6	39.2	7.6	4.0	3500.	0.890
MIXED FUEL BOILERS - OIL & REFUSE	2879.	0.23	0.23	16.6	39.3	28.9	10400.	0.268
DETERGENT	143.	0.052	0.052	1.1	9.1	1.9	7100.	0.796
		1.7	1.7	101.	2.4	1.9	480.	0.700

PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N	UNCONT E U	P B	C	A 1975	B 1985	C 1985
BLR >250 E6 BTU/HR EXIST. NEW.	0.58 0.58	LB/E6 BTU	0.277 0.100	0.050	3.110	0.050S	0.055C	28011.	14006.	19836.
BOILERS 3-10 MM BTU/HR										
BOILERS 3-10 MM BTU/HR	0.25	LB/E6 BTU	0.250	0.048	0.250	0.037S	0.043C	26471.	9794.	13857.
BOILERS <3 MM BTU/HR	0.30	LB/E6 BTU	0.039	0.000	0.039	0.020S	0.029C	24572.	4914.	8131.
FLYASH - VENEER										
FLYASH - VENEER	0.95	LB/TON	0.004	0.001	0.132	0.050S	0.025C	22600.	11300.	6330.
BLR 10-250 E6 BTU/HR EXIST. NEW.	0.32 0.32	LB/E6 BTU	0.383 0.334	0.127	2.020	0.050S	0.014C	19534.	9767.	2914.
PETROLEUM REFINRY FCCU EXIST. NEW.	0.85 0.85	LB/TON	0.066 0.017	0.010	0.242	0.031S	0.042C	1506.	467.	766.
ASPHALT BATCHING EXIST. NEW.	0.47 0.47	LB/TON	0.376 0.169	0.045	15.000	0.008S	0.050S	1480.	118.	740.
STONE QUARRYING AND PROCESSING										
STONE QUARRYING AND PROCESSING	0.80	LB/TON	0.379	0.155	15.500	0.050S	0.033S	1225.	613.	404.
GAS TURBINE ENGINES ELECTRIC UTILITIES										
GAS TURBINE ENGINES ELECTRIC UTILITIES	0.22	LB/TON	3.740	0.000	3.740	0.020S	0.270S	54.1	10.8	146.
CONCRETE BATCHING										
CONCRETE BATCHING	1.00	LB/TON	0.098	0.010	0.100	0.033S	0.030C	327.	108.	112.
INDUSTRIAL/COMMERCIAL INCINERATION										
INDUSTRIAL/COMMERCIAL INCINERATION	0.38	LB/TON	6.470	0.065	6.470	0.039S	0.110C	32.6	12.7	60.0
LEAD ACID BATTERY										
LEAD ACID BATTERY	0.76	LB/PRD UNIT	0.032	0.000	0.130	0.040S	0.050C	80.0	32.0	50.3
IRON & STEEL - B8F EXIST. NEW.	0.90 0.90	LB/TON	0.208 0.150	0.150	51.000	0.028S	0.048S	88.9	24.9	42.7
COAL CLEANING - THERMAL DRYING EXIST. NEW.	0.59 0.59	LB/TON	0.410 0.340	0.099	19.800	0.050S	0.029S	133.	66.5	38.6
GRAIN HANDLING - PROCESSING										
GRAIN HANDLING - PROCESSING	0.82	LB/TON	2.160	0.030	6.000	0.037S	0.015C	240.	88.7	38.5
GRAIN HANDLING - SCREENING										
GRAIN HANDLING - SCREENING	0.82	LB/TON	1.610	0.060	6.000	0.037S	0.015C	240.	88.7	38.5
GRAIN HANDLING - TRANSFER										
GRAIN HANDLING - TRANSFER	0.82	LB/TON	1.940	0.200	20.000	0.037S	0.015C	240.	88.7	38.5
CEMENT PLANTS EXIST. NEW.	0.90 0.90	LB/TON	206.000 0.640	0.450	301.000	0.025S	0.030C	103.	25.8	35.4

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E _U	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION			
			ALLOWABLE E _S	E _N		P _B	P _B	P _C	A 1975	B 1985	C 1985	
IRON AND STEEL - BLAST FURNACE	0.90	LB/TON	1.500	1.500	150.000	0.028S	0.028S	0.029S	E6 TONS	119.	33.2	34.4
MIXED FUEL BOILERS - COAL & REFUSE	0.58	LB/TON	5.000	3.660	366.000	0.000S	0.000S	17.290S	E6 TONS	0.16	0.0	27.0
IRON & STEEL - EAF	0.90	LB/TON	4.490	0.480	28.300	0.028S	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
EXIST. NEW	0.90		1.000									
IRON AND STEEL - SCARFING	0.90	LB/TON	0.138	0.030	3.000	0.028S	0.028S	0.029S	E6 TONS	87.3	24.4	25.3
STEEL FOUNDRIES	0.90	LB/TON	2.200	0.104	10.400	0.028S	0.028S	0.073S	E6 TONS	29.3	8.2	21.4
WOOD WASTE BOILERS	0.58	LB/TON	3.010	0.280	27.500	0.050S	0.050S	0.012C	E6 TONS	163.	81.4	20.6
IRON AND STEEL - SINTERING	0.90	LB/TON	0.500	0.150	42.000	0.028S	0.028S	0.029S	E6 TONS	69.6	19.5	20.2
FERTILIZER - AMMONIUM SULFATE	0.84	LB/TON	2.040	1.000	20.000	0.045S	0.045S	0.116C	E6 TONS	9.3	4.2	18.5
PHOSPHATE ROCK - DRYING/HANDLING	0.87	LB/TON	0.340	0.122	14.000	0.050S	0.050S	0.041S	E6 TONS	43.9	21.9	18.0
BRICKARD HEATERS	1.00	LB/TON	0.007	0.000	0.007	0.033S	0.033S	0.028S	E6 TONS	60.0	19.8	16.8
LIME PROCESSING	0.90	LB/TON	3.400	0.203	203.000	0.050S	0.050S	0.050C	E6 TONS	26.1	13.1	16.4
MUNICIPAL INCINERATION	0.56	LB/TON	4.600	0.990	19.700	0.039S	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
EXIST. NEW	0.56		1.460									
SODIUM CARBONATE - NATURAL	0.87	LB/TON	1.160	0.450	90.000	0.045S	0.045S	0.130C	E6 TONS	5.8	2.6	13.8
PHOSPHATE ROCK - GRINDING	0.94	LB/TON	0.940	0.002	2.000	0.050S	0.050S	0.043S	E6 TONS	25.7	12.8	11.1
CAST IRON FOUNDRY - ELEC. FURN.	0.93	LB/TON	4.500	0.045	4.500	0.028S	0.028S	0.136S	E6 TONS	8.1	2.3	11.0
FERTILIZER - NITRATES	0.77	LB/TON	1.640	0.254	12.720	0.045S	0.045S	0.070C	E6 TONS	10.5	4.7	10.2
GLASS - SODALIME	0.80	LB/TON	1.890	0.020	2.000	0.033S	0.033S	0.028S	E6 TONS	34.4	11.4	9.6
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	2.770	1.320	130.500	0.033S	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
FEED MILLING - OTHER	0.50	LB/TON	2.060	0.100	20.000	0.029S	0.029S	0.035C	E6 TONS	21.4	6.2	8.8
SYNTHETIC FIBER - DACRON	0.68	LB/TON	1.580	0.350	7.000	0.045S	0.045S	0.164C	E6 TONS	2.3	1.0	8.2

PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			S	E	N	U	P	B	A	B	C
GRAIN HANDLING - DRYING	0.82	LB/TON	0.770	0.060	0.060	6.000	0.037S	0.015C	47.9	17.7	7.7
COKE OVENS - BY PRODUCT	0.93	LB/TON	4.900	0.430	0.430	4.900	0.028S	0.010S	75.5	21.1	7.5
BEER PROCESSING		LB/TON	2.090	0.270	0.270	5.450	0.040S	0.070C	7.2	2.9	7.0
PRIMARY ALUMINUM SHELTERS	0.81	LB/TON	5.820	1.800	1.800	92.000	0.035S	0.075C	6.0	2.1	6.4
GAS TURBINE ENGINES GAS PIPELINE	0.92	LB/TON	1.180	0.000	0.000	1.180	0.020S	0.145S	4.4	0.88	6.4
FIXED FUEL BOILERS - OIL & REFUSE	0.85	LB/TON	5.000	1.020	1.020	101.500	0.000S	17.290S	0.036	0.0	6.2
PULPBBOARD	0.58	LB/TON	0.096	0.014	0.014	0.096	0.031S	0.015C	37.2	11.5	6.0
CERAMIC CLAY	0.98	LB/TON	2.750	1.755	1.755	175.500	0.033S	0.042S	13.9	4.6	5.8
FLY ASH SINTERING	0.80	LB/TON	0.400	0.110	0.110	110.000	0.033S	0.055C	7.7	2.5	5.4
INTERNAL COMB ENGS DIESEL DUALFUEL	0.86	LB/TON	5.410	4.610	4.610	5.410	0.020S	0.028S	18.0	3.6	5.0
POLYPROPYLENE	0.58	LB/TON	2.670	0.030	0.030	3.000	0.003S	0.150C	1.6	0.048	4.9
WOOD PULPING KRAFT	0.78	LB/TON	5.630	5.630	5.630	198.000	0.031S	0.012C	33.9	10.5	4.3
SYNTHETIC FIBER - NYLON	0.98	LB/TON	1.530	0.750	0.750	15.000	0.045S	0.127C	1.7	0.77	4.0
SYNTHETIC RESINS - POLYESTER	0.72	LB/TON	4.100	0.350	0.350	7.000	0.045S	0.170C	1.0	0.46	3.9
POLYVINYL CHLORIDE	0.68	LB/TON	3.180	0.350	0.350	35.000	0.000S	0.078C	2.7	0.0055	3.1
SLUDGE INCINERATION	0.82	LB/TON	5.000	1.600	1.600	119.000	0.033S	0.250S	1.2	0.39	2.9
EXIST. NEW	0.50	LB/TON	1.550	1.350	1.350	50.400	0.045S	0.094C	1.8	0.83	2.7
EXPLOSIVES - HIGH	0.50	LB/TON	8.630	0.630	0.630	63.000	0.028S	0.027S	6.5	1.8	1.8
VEGETABLE OIL PRODUCTION	0.83	LB/TON	3.530	1.640	1.640	82.000	0.045S	0.054S	3.1	1.4	1.7
FERTILIZER - DAP	0.92	LB/TON	4.270	3.630	3.630	32.400	0.029S	0.020S	8.4	2.5	1.7
MINERAL WOOL	0.89	LB/TON	2.060	0.250	0.250	50.000	0.029S	0.035C	4.1	1.2	1.7
FEED MILLING - ALFALFA DEHYDR.	0.82	LB/TON									
0.50		LB/TON									

PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E S	E N	UNCONT E U	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
ASPHALT SATURATOR	0.90	LB/TON	1.330	0.073	7.300	0.042S	0.025S	E6 TONS	6.3	2.6	1.6
PAINT MANUFACTURING	0.83	LB/TON	1.000	0.001	1.000	0.067S	0.026C	E6 TONS	4.9	3.3	1.5
COTTON GINNING	1.00	LB/BALE	2.090	0.480	12.000	0.042S	0.013S	E6 BALE	10.8	4.5	1.4
DEEP FAT FRYING	0.81	LB/TON	7.130	0.119	11.900	0.028S	0.043C	E6 TONS	2.6	0.74	1.4
PHOSPHATE ROCK - CALCINING	0.90	LB/TON	0.960	0.400	40.000	0.050S	0.048S	E6 TONS	2.5	1.3	1.2
FIBERGLASS MFG--TEXTILE PRODUCTS	0.70	LB/TON	2.780	1.460	84.000	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
SUGAR CANE - BAGASSE BURNING	0.75	LB/TON	3.700	2.200	22.000	0.050S	0.015S	E6 TONS	7.0	3.5	1.0
DETERGENT	0.90	LB/TON	1.500	0.450	90.000	0.000S	0.035C	E6 TONS	2.5	0.0	1.0
GYPSON	0.80	LB/TON	1.510	0.302	131.700	0.029S	0.006S	E6 TONS	15.9	4.7	0.91
STARCH	0.83	LB/TON	2.000	0.020	8.000	0.045S	0.018C	E6 TONS	4.3	1.9	0.83
PRIMARY COPPER	0.85	LB/TON	37.900	1.220	405.000	0.036S	0.030C	E6 TONS	2.4	0.87	0.83
AUTOBODY INCINERATION	0.90	LB/PRD UNIT	1.970	0.540	2.000	0.039S	0.280S	E6 PU	0.29	0.11	0.82
SECONDARY COPPER - SHELTING	0.82	LB/TON	3.470	0.338	84.600	0.035S	0.037C	E6 TONS	1.8	0.64	0.82
ASPHALT BLOWING	0.90	LB/TON	1.180	0.042	4.200	0.042S	0.025S	E6 TONS	3.1	1.3	0.79
WHISKEY	0.95	LB/PRD UNIT	27.900	2.180	43.600	0.032S	0.060S	E6 PU	1.3	0.42	0.78
SEC ALUMINUM - REVERB FURNACE	0.82	LB/TON	4.800	0.960	195.000	0.036S	0.047S	E6 TONS	1.4	0.51	0.67
SMOKED MEAT	0.81	LB/TON	0.300	0.100	0.300	0.040S	0.017S	E6 TONS	3.6	1.4	0.61
FERTILIZER GTSP STORAGE	0.76	LB/TON	1.110	0.022	2.170	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
CARBON BLACK - FURNACE PROCESS	0.77	LB/TON	3.100	2.200	220.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56
FIBERGLASS MFG--WOOL PRODUCTS	0.70	LB/TON	8.640	8.640	96.000	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
PRIMARY ZINC SHELTERS EXIST. NEW	0.83 0.83	LB/TON	3.860 2.250	1.670	1665.000	0.036S	0.035C	E6 TONS	1.3	0.47	0.53

PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES			CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N	UNCONT E U	DECIMAL/YR P B	P C	A 1975	B 1985	C 1985
STYRENE - BUTADIENE RUBBER	0.75	LB/TON	0.700	0.120	0.700	0.0035	0.020C	2.3	0.070	0.51
CHARCOAL	0.45	LB/TON	19.500	3.500	352.000	0.0455	0.043C	0.73	0.36	0.42
SECONDARY COPPER - HANDLING	0.82	LB/TON	6.640	0.848	212.000	0.0355	0.037C	0.73	0.25	0.32
FRUIT MANUFACTURING	0.80	LB/TON	5.800	1.780	17.800	0.0335	0.0375	0.84	0.28	0.31
WOOD PULPING SULFITE	0.98	LB/TON	3.000	3.000	24.000	0.0315	0.012C	2.4	0.74	0.30
SECONDARY LEAD - REVERB EXIST.	0.68	LB/TON	6.440	1.050	277.000	0.0245	0.032C	0.71	0.17	0.26
NEW	0.68	LB/TON	1.250							
FERRERALLOY - SUBMERGED ARC FURNACE	0.90	LB/TON	22.800	4.560	456.000	0.0285	0.015C	1.6	0.44	0.25
PERLITE	0.82	LB/TON	4.350	0.840	21.000	0.0295	0.0365	0.65	0.19	0.23
HYDROFLUORIC ACID	0.98	LB/TON	35.000	35.000	700.000	0.0455	0.0495	0.45	0.20	0.22
PHOSPHORIC ACID - THERMAL PROCESS	0.81	LB/TON	2.270	0.134	134.000	0.0455	0.014C	1.4	0.63	0.21
CASTABLE REFRACTORY	0.80	LB/TON	5.320	4.620	254.000	0.0335	0.043C	0.39	0.13	0.20
CLAY SINTERING	0.80	LB/TON	2.410	0.026	26.000	0.0335	0.0275	0.74	0.24	0.20
SECONDARY ZINC - DISTILLATION	0.82	LB/TON	2.710	1.700	46.000	0.0355	0.039C	0.38	0.13	0.18
SEC ALUMINUM - SWEAT FURNACE	0.68	LB/TON	7.360	1.980	33.000	0.0365	0.0475	0.30	0.11	0.14
GLASS - 6PAL	0.80	LB/TON	2.240	0.022	2.240	0.0335	0.0285	0.46	0.15	0.13
PET REF - PRBC GAS CHMB	0.85	LB/E6 BTU	20.000	3.000	20.000	0.0315	0.042C	0.23	0.070	0.12
SECONDARY ZINC - SWEATING	0.82	LB/TON	3.860	0.872	23.600	0.0355	0.039C	0.20	0.070	0.093
SECONDARY LEAD - BLAST	0.68	LB/TON	4.350	1.050	271.000	0.0245	0.032C	0.15	0.036	0.055
EXIST.	0.68	LB/TON	1.250							
PATHOLOGICAL INCINERATION	0.34	LB/TON	4.600	1.900	12.800	0.0395	0.026C	0.13	0.051	0.038
EXIST.	0.34	LB/TON	3.800							
SECONDARY LEAD - PBT FURNACE	0.68	LB/TON	1.360	0.041	1.360	0.0245	0.032C	0.065	0.016	0.024

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES		UNITS/YR	CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	EMISSION RATES E N	UNCONT E U	DECIMAL/YR P B	P C	1975	B 1985	
DIRECT FIRING OF HEATS	0.62	LB/TON	2445.000	195.600	2445.000	0.050S	0.033S	0.034	0.017	0.011
SEC MAGNESIUM		LB/TON	6.780	0.680	6.780	0.035S	0.016S	0.017	0.0061	0.0026
MINING/MILLING LEAD ORE	0.82	LB/TON	4.170	2.090	4.170	0.050S	0.000	0.62	0.31	0.0
PRIMARY LEAD SHELTERS	0.92	LB/TON	3.060	1.190	790.000	0.036S	0.000	0.76	0.28	0.0
EXIST- NEW*	0.99 0.85	LB/TON	3.060 3.060							
SOAP		LB/TON	0.724	0.026	13.000	0.045S	0.000S	0.55	0.25	0.0
BRASS & BRONZE SHELTING	0.90	LB/TON	3.250	0.280	70.000	0.036S	0.000S	0.38	0.13	0.0
EXIST- NEW*	0.80 0.80	LB/TON	1.200 1.200							
ANIMAL FEED DEFLOURINATION	0.90	LB/TON	4.570	0.063	625.000	0.040S	0.000S	0.20	0.080	0.0
SAND AND GRAVEL PROCESSING	0.80	LB/TON	0.100	0.005	0.100	0.050S	0.000S	1142.	571.	0.0
COFFEE ROASTING	0.85	LB/TON	0.794	0.440	7.300	0.040S	0.000S	1.5	0.62	0.0
FISH MEAL PROCESSING	0.81	LB/TON	0.400	0.040	0.400	0.008S	0.000C	0.36	0.029	0.0

PARTICULATES

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS			T N 1985	TONS/YEAR T-S-N 1985	I - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985			
BLR >250 E6 BTU/HR	43153.	2250.	1125.	12632.	2106.	1616.	490000.	0.500
BOILERS -3-10 MM BTU/HR	1260.	827.	521.	521.	1260.	663.	597000.	0.808
* BOILERS <0.3 MM BTU/HR	191.	144.	115.	115.	191.	115.	76300.	1.000
PLYWOOD - VENEER	1814.	42.9	21.5	709.	55.0	32.4	22600.	0.675
BLR 10-250 E6 BTU/HR	7255.	1197.	599.	3157.	1276.	856.	419000.	0.620
PETROLEUM REFINRY FCCU	234.	42.2	29.1	107.	38.1	34.4	3600.	0.412
ASPHALT BATCHING	7826.	131.	120.	4800.	154.	129.	25000.	0.734
STONE QUARRYING AND PROCESSING	10101.	186.	92.9	3798.	247.	156.	91100.	0.591
* GAS TURBINE ENGINES ELECTRIC UTILITIES	82.3	22.3	17.8	17.8	82.3	17.8	64500.	1.000
CONCRETE BATCHING	21.9	16.0	10.7	10.9	21.5	11.8	9600.	0.898
INDUSTRIAL/COMMERCIAL INCINERATION	114.	40.1	24.4	24.4	114.	25.3	88400.	0.990
LEAD ACID BATTERY	5.4	0.97	0.58	2.4	1.6	0.59	990.	0.996
IRON & STEEL - BOF	3020.	8.3	6.0	1469.	10.6	10.6	0.0	0.000
COAL CLEANING - THERMAL DRYING	1002.	16.1	8.0	388.	18.6	11.1	7400.	0.709
GRAIN HANDLING - PROCESSING	684.	212.	134.	371.	246.	135.	111000.	0.986
GRAIN HANDLING - SCREENING	684.	158.	99.6	371.	184.	103.	80700.	0.963
GRAIN HANDLING - TRANSFER	2280.	191.	120.	1238.	221.	130.	90600.	0.897
CEMENT PLANTS	18749.	9548.	7161.	10464.	7179.	7173.	5200.	0.297
IRON AND STEEL - BLAST FURNACE	10336.	80.1	57.7	5769.	103.	103.	0.0	0.000
MIXED FUEL BOILERS - COAL & REFUSE	2879.	0.23	0.23	16.6	39.3	28.9	10400.	0.268

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS						TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
IRON & STEEL - EAF								
IRON AND STEEL - SCARFING	809.	74.2	53.4	337.	70.1	61.4	8600.	0.520
STEEL FOUNDRIES	152.	5.4	3.9	84.9	7.0	4.6	2400.	0.783
WOOD WASTE BOILERS	237.	29.0	20.9	98.7	50.2	22.3	27900.	0.953
IRON AND STEEL - SINTERING	1464.	142.	71.1	650.	160.	79.4	80800.	0.907
FERTILIZER - AMMONIUM SULFATE	1697.	15.7	11.3	947.	20.2	14.0	6200.	0.700
PHOSPHATE ROCK - DRYING/HANDLING	233.	7.9	4.4	42.8	23.8	13.9	9900.	0.510
* ORCHARD HEATERS	377.	6.5	3.2	134.	9.2	5.4	3700.	0.641
LIME PROCESSING	0.27	0.21	0.14	0.14	0.27	0.14	120.	1.000
MUNICIPAL INCINERATION	3891.	40.0	20.0	1194.	65.2	22.7	42400.	0.940
SODIUM CARBONATE - NATURAL	262.	41.9	25.5	109.	36.8	33.2	3600.	0.322
PHOSPHATE ROCK - GRINDING	764.	2.9	1.6	124.	9.8	4.8	5000.	0.612
CAST IRON FOUNDRY - ELEC. FURN.	34.5	11.4	5.7	12.1	16.2	5.7	10500.	0.998
FERTILIZER - NITRATES	40.0	16.9	12.2	12.2	40.0	12.5	27500.	0.990
GLASS - SODALIME	101.	6.6	3.6	28.3	13.1	5.1	7900.	0.845
BRICK & RELATED CLAY PRODUCTS	35.3	26.0	17.4	18.5	33.3	17.6	15700.	0.989
FEED MILLING - OTHER	2367.	39.6	26.5	1249.	50.2	37.8	12400.	0.523
SYNTHETIC FIBER - DACRON	151.	11.0	7.8	75.9	15.5	8.2	7300.	0.951
GRAIN HANDLING - DRYING	24.9	1.2	0.68	3.0	5.6	1.8	3800.	0.778
COKE OVENS - BY PRODUCT	137.	15.1	9.5	74.2	17.5	10.2	7300.	0.922
	189.	172.	124.	124.	189.	130.	59600.	0.912

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS						TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
BEER PROCESSING	31.3	6.1	3.7	9.5	12.0	4.7	7200.	0.871
PRIMARY ALUMINUM SMELTERS	523.	16.1	10.4	165.	33.1	17.5	15600.	0.691
* GAS TURBINE ENGINES GAS PIPELINE	5.4	2.2	1.8	1.8	5.4	1.8	3600.	1.000
MIXED FUEL BOILERS - OIL & REFUSE	184.	0.052	0.052	1.1	9.1	1.9	7100.	0.796
PULPBARD	2.0	1.7	1.2	1.2	2.0	1.3	700.	0.854
CERAMIC CLAY	134.	15.3	10.2	653.	21.7	17.5	4100.	0.362
FLY ASH SINTERING	621.	1.3	0.89	243.	2.3	1.3	990.	0.725
INTERNAL COMB ENGS DIESEL DUALFUEL	35.1	28.2	22.5	22.5	36.1	34.1	2000.	0.148
POLYPROPYLENE	7.6	1.7	1.6	1.8	6.7	1.7	5000.	0.989
WOOD PULPING KRAFT	3706.	93.5	64.5	2269.	105.	105.	0.0	0.000
SYNTHETIC FIBER - NYLON	30.6	0.94	0.52	5.1	3.1	1.8	1300.	0.510
SYNTHETIC RESINS - POLYESTER	11.7	1.4	0.78	1.3	6.8	1.3	5500.	0.915
POLYVINYL CHLORIDE	83.3	3.6	3.6	39.2	7.6	4.0	3500.	0.890
SLUDGE INCINERATION	122.	1.5	0.98	23.4	2.3	2.3	0.0	-0.000
EXPLOSIVES - HIGH	94.4	1.2	0.65	21.1	2.9	2.6	290.	0.129
VEGETABLE OIL PRODUCTION	240.	25.9	18.6	136.	32.9	19.7	13100.	0.927
FERTILIZER - DAP	176.	4.9	2.7	63.0	7.6	5.0	2600.	0.535
MINERAL WOOL	135.	14.8	10.4	79.1	17.7	16.6	1000.	0.150
FEED MILLING - ALFALFA DEHYDR.	71.9	2.1	1.5	36.2	3.0	1.7	1200.	0.879
ASPHALT SATURATOR	25.8	3.8	2.2	12.0	4.7	2.3	2300.	0.945

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				TONS/YEAR T - T S N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
PAINT MANUFACTURING	2.7	2.0	0.68	0.68	2.7	0.68	1900.	0.999
COTTON GINNING	73.2	11.3	6.5	37.6	12.8	8.0	4700.	0.770
DEEP FAT FRYING	19.4	7.6	5.5	9.2	11.6	5.6	6000.	0.983
PHOSPHATE ROCK - CALCINING	67.9	1.1	0.55	22.9	1.6	1.0	620.	0.583
FIBERGLASS MFG.-TEXTILE PRODUCTS	43.2	0.50	0.19	5.7	1.6	0.93	660.	0.475
SUGAR CANE - BAGASSE BURNING	66.4	9.7	4.9	28.9	11.2	8.6	2500.	0.405
DETERGENT	143.	1.7	1.7	101.	2.4	1.9	480.	0.700
GYPSON	886.	9.6	6.8	592.	10.2	7.5	2700.	0.800
STARCH	16.9	3.5	1.9	7.8	4.2	2.0	2200.	0.990
PRIMARY COPPER	557.	38.8	24.8	265.	52.2	25.7	26400.	0.968
AUTOBODY INCINERATION	1.0	0.26	0.16	0.16	0.99	0.39	600.	0.726
SECONDARY COPPER - SMELTING	92.2	2.6	1.7	41.5	3.8	1.9	1800.	0.903
ASPHALT BLOWING	7.4	1.7	0.97	3.5	2.1	1.0	1000.	0.964
WHISKEY	43.2	17.3	11.8	18.4	27.6	13.0	14600.	0.922
SEC ALUMINUM - REVERB FURNACE	167.	2.8	1.8	73.1	4.1	2.3	1800.	0.800
SMOKED MEAT	0.51	0.44	0.26	0.26	0.51	0.35	160.	0.667
FERTILIZER GTSP STORAGE	1.5	0.50	0.27	0.54	0.75	0.28	450.	0.980
CARBON BLACK - FURNACE PROCESS	215.	2.4	1.3	92.6	3.0	2.5	500.	0.290
FIBERGLASS MFG.-WOOL PRODUCTS	55.0	3.3	1.2	13.7	4.9	4.9	0.0	0.000
PRIMARY ZINC SMELTERS	1267.	2.1	1.3	575.	2.3	2.0	240.	0.258

PARTICULATES

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				T S 1985	T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985					
STYRENE - BUTADIENE RUBBER	0.75	0.62	0.60	0.60	0.75	0.62	120.	0.829		
CHARCOAL	181.	6.6	3.6	65.4	10.0	4.8	5200.	0.821		
SECONDARY COPPER - HANDLING	91.2	2.0	1.3	41.1	2.9	1.5	1300.	0.872		
FRUIT MANUFACTURING	8.2	1.9	1.3	4.0	2.7	1.7	940.	0.693		
WOOD PULPING SULFITE	31.8	3.5	2.4	19.5	4.0	4.0	0.0	0.000		
SECONDARY LEAD - REVERB	92.0	1.6	1.2	51.0	1.4	1.3	20.0	0.160		
FERRALLOY - SUBMERGED ARC FURNACE	372.	16.0	11.5	230.	18.6	12.9	5600.	0.800		
PERLITE	7.6	1.2	0.81	3.9	1.6	0.96	600.	0.807		
HYDROFLUORIC ACID	229.	7.7	4.2	84.7	11.5	11.5	0.0	0.000		
PHOSPHORIC ACID - THERMAL PROCESS	86.7	1.3	0.70	41.5	1.5	0.75	720.	0.941		
CASTABLE REFRACTORY	53.9	0.82	0.55	26.3	1.3	1.2	90.0	0.132		
CLAY SINTERING	9.8	0.71	0.48	5.2	0.91	0.48	420.	0.989		
SECONDARY ZINC - DISTILLATION	10.5	0.42	0.27	4.7	0.62	0.49	120.	0.373		
SEC ALUMINUM - SWEAT FURNACE	5.0	0.76	0.49	2.2	1.1	0.65	450.	0.731		
GLASS - OPAL	0.52	0.41	0.27	0.27	0.52	0.28	240.	0.990		
PET REF - PROC GAS COMB	2.9	1.9	1.3	1.3	2.9	1.6	1300.	0.850		
SECONDARY ZINC - SWEATING	2.8	0.32	0.21	1.3	0.46	0.26	190.	0.774		
SECONDARY LEAD - BLAST	18.7	0.22	0.17	10.4	0.20	0.20	6.1	0.160		
PATHOLOGICAL INCINERATION	0.37	0.10	0.062	0.17	0.12	0.091	20.0	0.500		
SECONDARY LEAD - PBT FURNACE	0.641	0.030	0.023	0.023	0.041	0.023	10.0	0.970		

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS						TONS/YEAR T-S-N 1985	I-E-N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
DIRECT FIRING OF HEATS	34.0	25.5	12.8	12.8	34.0	14.5	19500.	0.920
SEC MAGNESIUM								
MINING/MILLING LEAD ORE	0.056	0.049	0.032	0.032	0.056	0.034	20.0	0.900
PRIMARY LEAD SHELTERS	1.2	1.2	0.60	0.60	1.2	0.90	290.	0.499
SOAP	272.	1.2	0.64	164.	1.1	0.80	250.	0.611
BRASS & BRONZE SMELTING	3.2	0.18	0.099	1.8	0.18	0.10	70.0	0.964
ANIMAL FEED DEFLUORINATION	10.5	0.49	0.31	6.7	0.38	0.33	40.0	0.767
SAND AND GRAVEL PROCESSING	56.2	0.41	0.25	33.8	0.41	0.25	160.	0.986
COFFEE ROASTING	45.7	45.7	22.8	22.8	45.7	24.0	21600.	0.950
FISH MEAL PROCESSING	4.8	0.52	0.31	2.9	0.52	0.43	90.0	0.446
	0.058	0.058	0.054	0.054	0.058	0.054	4.2	0.900

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PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		C
			ALLOWABLE E	N		P	B	P	A	B	
			S		U				1975	1985	1985
DIRECT FIRING OF MEATS	0.62	LB/TON	2445-000	195-600	2445-000	0.050S	0.033S	E6 TONS	0.034	0.017	0.011
HYDROFLUORIC ACID											
FIBERGLASS MFG--W00L PRODUCTS	0.98	LB/TON	35-000	35-000	700-000	0.045S	0.049S	E6 TONS	0.45	0.20	0.22
W00D PULPING KRAFT	0.70	LB/TON	8-640	8-640	96-000	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
CASSTABLE REFRACTORY	0.98	LB/TON	5-630	5-630	198-000	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
INTERNAL COMB ENGS DIESEL DUALFUEL	0.80	LB/TON	5-320	4-620	254-000	0.033S	0.043C	E6 TONS	0.39	0.13	0.20
FERR0ALLOY - SUBMERGED ARC FURNACE	0.58	LB/TON	5-410	4-610	5-410	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
FIXED FUEL BOILERS - COAL & REFUSE	0.90	LB/TON	22-800	4-560	456-000	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
MINERAL W00L	0.58	LB/TON	5-000	3-660	366-000	0.000S	17.290S	E6 TONS	0.16	0.0	27.0
CHARCOAL	0.82	LB/TON	4-270	3-630	32-400	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
FET REF - PROC GAS COMB	0.85	LB/TON	19-500	3-500	352-000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42
W00D PULPING SULFITE	0.85	LB/E6 BTU	20-000	3-000	20-000	0.031S	0.042C	E12 BTU	0.23	0.070	0.12
CARBON BLACK - FURNACE PROCESS	0.98	LB/TON	3-000	3-000	24-000	0.031S	0.012C	E6 TONS	2.4	0.74	0.30
SUGAR CANE - BAGASSE BURNING	0.77	LB/TON	3-100	2-200	220-000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56
WHISKEY	0.75	LB/TON	3-700	2-200	22-000	0.050S	0.015S	E6 TONS	7.0	3.5	1.0
PINING/MILLING LEAD ORE	0.95	LB/PRD UNT	27-900	2-180	43-600	0.032S	0.060S	E6 PU	1.3	0.42	0.78
SEC ALUMINUM - SWEAT FURNACE	0.92	LB/TON	4-170	2-090	4-170	0.050S	0.000	E6 TONS	0.62	0.31	0.0
PATHOLOGICAL INCINERATION	0.68	LB/TON	7-360	1-980	33-000	0.036S	0.047S	E6 TONS	0.30	0.11	0.14
EXIST- NEW	0.34 0.34	LB/TON	4-600 3-800	1-900	12-800	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
PRIMARY ALUMINUM SHELTERS											
FRUIT MANUFACTURING	0.92	LB/TON	5-820	1-800	92-000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4
CERAMIC CLAY	0.80	LB/TON	5-900	1-780	17-800	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
	0.80	LB/TON	2-750	1-755	175-500	0.033S	0.042S	E6 TONS	13.9	4.6	5.8

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES DECIMAL/YR		UNITS/YR	INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N	UNCERT E U	P B	P C	A 1975	B 1985	C 1985
SECONDARY ZINC - DISTILLATION	0.82	LB/TON	2.710	1.700	46.000	0.0355	0.039C	0.38	0.13	0.18
PRIMARY ZINC SHELTERS	0.83	LB/TON	3.860	1.470	1665.000	0.0365	0.035C	1.3	0.47	0.53
EXIST. NEW	0.83		2.250							
FERTILIZER - DAP	0.89	LB/TON	3.530	1.640	82.000	0.0455	0.054S	3.1	1.4	1.7
SLUDGE INCINERATION	0.50	LB/TON	5.000	1.600	119.000	0.0335	0.250S	1.2	0.39	2.9
EXIST. NEW	0.50		1.600							
IRON AND STEEL - BLAST FURNACE	0.90	LB/TON	1.500	1.500	150.000	0.0285	0.029S	119.	33.2	34.4
FIBERGLASS MFG. - TEXTILE PRODUCTS	0.70	LB/TON	2.780	1.460	84.000	0.0635	0.122C	0.52	0.32	1.1
EXPLOSIVES - HIGH	0.83	LB/TON	1.550	1.350	50.400	0.0455	0.094C	1.8	0.83	2.7
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	2.770	1.320	130.500	0.0335	0.027S	35.7	11.8	9.6
PRIMARY COPPER	0.85	LB/TON	37.900	1.220	405.000	0.0365	0.030C	2.4	0.87	0.83
PRIMARY LEAD SHELTERS	0.99	LB/TON	3.080	1.190	790.000	0.0365	0.000	0.76	0.28	0.0
EXIST. NEW	0.85		3.060							
SECONDARY LEAD - BLAST	0.68	LB/TON	4.350	1.050	271.000	0.0245	0.032C	0.15	0.036	0.055
EXIST. NEW	0.68		1.250							
SECONDARY LEAD - REVERB	0.68	LB/TON	6.440	1.050	277.000	0.0245	0.032C	0.71	0.17	0.26
EXIST. NEW	0.68		1.250							
MIXED FUEL BOILERS - OIL & REFUSE	0.58	LB/TON	5.000	1.020	101.500	0.0005	17.290S	0.036	0.0	6.2
FERTILIZER - AMMONIUM SULFATE	0.84	LB/TON	2.040	1.000	20.000	0.0455	0.116C	9.3	4.2	18.5
MUNICIPAL INCINERATION	0.56	LB/TON	4.600	0.990	19.700	0.0395	0.046S	32.5	12.7	14.9
EXIST. NEW	0.56		1.460							
SEC ALUMINUM - REVERB FURNACE	0.82	LB/TON	4.800	0.960	195.000	0.0365	0.047S	1.4	0.51	0.67
SECONDARY ZINC - SWEATING	0.82	LB/TON	3.360	0.872	23.600	0.0355	0.039C	0.20	0.070	0.093
SECONDARY COPPER - HANDLING	0.82	LB/TON	6.640	0.848	212.000	0.0355	0.037C	0.73	0.25	0.32

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FBR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES			INDUSTRY		
			ALLOWABLE F S	EMISSION E N	UNCONT E U	DECIMAL/YR P d	DECIMAL/YR P c	UNITS/YR	A CAPACITY/PRODUCTION 1975	B 1985	C 1985
PERLITE	0.82	LB/TON	4.350	0.840	21.000	0.029S	0.036S	E6 TONS	0.65	0.19	0.23
SYNTHETIC FIBER - NYLON	0.72	LB/TON	1.530	0.750	15.000	0.045S	0.127C	E6 TONS	1.7	0.77	4.0
SEC MAGNESIUM	0.92	LB/TON	6.780	0.680	6.780	0.035S	0.016S	E6 TONS	0.017	0.0061	0.0028
VEGETABLE PRODUCTION	0.92	LB/TON	8.630	0.630	63.000	0.028S	0.027S	E6 TONS	6.5	1.8	1.8
AUTOMOBILE INCINERATION	0.90	LB/PRD UNIT	1.970	0.540	2.000	0.039S	0.280S	E6 PU	0.29	0.11	0.82
COTTON GINNING	1.00	LB/BALE	2.090	0.480	12.000	0.042S	0.013S	E6 BALE	10.8	4.5	1.4
IRON & STEEL - EAF EXIST. NEW	0.90 0.90	LB/TON	4.490 1.000	0.480	28.300	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
SODIUM CARBONATE - NATURAL	0.87	LB/TON	1.160	0.450	90.000	0.045S	0.130C	E6 TONS	5.8	2.6	13.8
CEMENT PLANTS EXIST. NEW	0.90 0.90	LB/TON	206.000 0.640	0.450	301.000	0.025S	0.030C	E6 TONS	103.	25.8	35.4
DETERGENT	0.90	LB/TON	1.500	0.450	90.000	0.000S	0.035C	E6 TONS	2.5	0.0	1.0
COFFEE ROASTING	0.85	LB/TON	0.794	0.440	7.300	0.040S	0.000S	E6 TONS	1.5	0.62	0.0
COKE OVENS - BY PRODUCT	0.93	LB/TON	4.900	0.430	4.900	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
PHOSPHATE ROCK - CALCINING	0.90	LB/TON	0.960	0.400	40.000	0.050S	0.048S	E6 TONS	2.5	1.3	1.2
SYNTHETIC FIBER - DACRON	0.68	LB/TON	1.580	0.350	7.000	0.045S	0.164C	E6 TONS	2.3	1.0	8.2
POLYVINYL CHLORIDE	0.82	LB/TON	3.180	0.350	35.000	0.000S	0.078C	E6 TONS	2.7	0.0055	3.1
SYNTHETIC RESINS - POLYESTER	0.68	LB/TON	4.100	0.350	7.000	0.045S	0.170C	E6 TONS	1.0	0.46	3.9
SECONDARY COPPER - SMELTING	0.82	LB/TON	3.470	0.338	84.600	0.035S	0.037C	E6 TONS	1.8	0.64	0.82
GYPSUM	0.80	LB/TON	1.510	0.302	131.700	0.029S	0.006S	E6 TONS	15.9	4.7	0.91
BRASS & BRONZE SMELTING EXIST. NEW	0.80 0.80	LB/TON	3.250 1.200	0.280	70.000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
BOOD WASTE BOILERS	0.58	LB/TON	3.010	0.280	27.500	0.050S	0.012C	E6 TONS	163.	81.4	20.6

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E _S	E _N	UNCONT E _U	P _B	P _C	UNITS/YR	A 1975	B 1985	C 1985
BEER PROCESSING	0.81	LB/TON	2.090	0.270	5.450	0.040S	0.070C	E6 TONS	7.2	2.9	7.0
FERTILIZER - NITRATES	0.77	LB/TON	1.640	0.254	12.720	0.045S	0.070C	E6 TONS	10.5	4.7	10.2
FEED MILLING - ALFALFA DEHYDR.	0.50	LB/TON	2.060	0.250	50.000	0.029S	0.035C	E6 TONS	4.1	1.2	1.7
LIME PROCESSING	0.90	LB/TON	3.400	0.203	203.000	0.050S	0.050C	E6 TONS	26.1	13.1	16.4
GRAIN HANDLING - TRANSFER	0.82	LB/TON	1.940	0.200	20.000	0.037S	0.015C	E6 TONS	24.0	88.7	38.5
STONE QUARRYING AND PROCESSING	0.80	LB/TON	0.379	0.155	15.500	0.050S	0.033S	E6 TONS	1225.	613.	404.
IRON & STEEL - HOT EXIST.	0.90	LB/TON	0.208	0.150	51.000	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
IRON AND STEEL - SINTERING NEW	0.90	LB/TON	0.500	0.150	42.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2
PHOSPHORIC ACID - THERMAL PROCESS	0.81	LB/TON	2.270	0.134	134.000	0.045S	0.014C	E6 TONS	1.4	0.63	0.21
PLR 10-250 E6 BTU/HR EXIST.	0.32	LB/E6 BTU	0.383	0.127	2.020	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
PHOSPHATE ROCK - DRYING/HANDLING NEW	0.87	LB/TON	0.340	0.122	14.000	0.050S	0.041S	E6 TONS	43.9	21.9	18.0
STYRENE - BUTADIENE RUBBER	0.75	LB/TON	0.700	0.120	0.700	0.003S	0.020C	E6 TONS	2.3	0.070	0.51
DEEP FAT FRYING	0.81	LB/TON	7.130	0.119	11.900	0.028S	0.043C	E6 TONS	2.6	0.74	1.4
FLY ASH SINTERING	0.86	LB/TON	0.400	0.110	110.000	0.033S	0.055C	E6 TONS	7.7	2.5	5.4
STEEL FOUNDRIES	0.90	LB/TON	2.200	0.104	10.400	0.028S	0.073S	E6 TONS	29.3	8.2	21.4
SMOKED MEAT	0.81	LB/TON	0.300	0.100	0.300	0.040S	0.017S	E6 TONS	3.6	1.4	0.61
FEED MILLING - OTHER	0.50	LB/TON	2.060	0.100	20.000	0.029S	0.035C	E6 TONS	21.4	6.2	8.8
COAL CLEANING - THERMAL EXIST.	0.59	LB/TON	0.410	0.099	19.800	0.050S	0.029S	E6 TONS	133.	66.5	38.6
NEW	0.59	LB/TON	0.340								
ASPHALT SATURATOR	0.90	LB/TON	1.330	0.073	7.300	0.042S	0.025S	E6 TONS	6.3	2.6	1.6
INDUSTRIAL/COMMERCIAL INCINERATION	0.38	LB/TON	6.470	0.065	6.470	0.039S	0.110C	E6 TONS	32.6	12.7	60.0

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCERT E	GROWTH RATES DECIMAL/YR			A	B	C
			ALLOWABLE E	EMISSION N		P	B	P			
			S		U				1975	1985	1985
ANIMAL FEED DEFLUORINATION	0.90	LB/TON	4.570	0.063	625.000	0.040S	0.000S	0.000S	0.20	0.080	0.0
GRAIN HANDLING - SCREENING	0.82	LB/TON	1.610	0.060	6.000	0.037S	0.015C	0.015C	240.	88.7	38.5
GRAIN HANDLING - DRYING	0.82	LB/TON	0.770	0.060	6.000	0.037S	0.015C	0.015C	47.9	17.7	7.7
BLR >250 E6 BTU/HR EXIST.	0.58	LB/E6 BTU	0.277	0.050	3.110	0.050S	0.055C	0.055C	28011.	14006.	19836.
BOILERS - 3-10 MM BTU/HR NEW	0.58	LB/E6 BTU	0.100								
CAST IRON FOUNDRY - ELEC. FURN.	0.25	LB/E6 BTU	0.250	0.048	0.250	0.037S	0.043C	0.043C	26471.	9794.	13857.
ASPHALT BATCHING EXIST.	0.93	LB/TON	4.500	0.045	4.500	0.028S	0.136S	0.136S	8.1	2.3	11.0
ASPHALT BLOWING NEW	0.47	LB/TON	0.376	0.045	15.000	0.008S	0.050S	0.050S	1480.	118.	740.
SECONDARY LEAD - PBT FURNACE	0.90	LB/TON	1.180	0.042	4.200	0.042S	0.025S	0.025S	3.1	1.3	0.79
FISH MEAL PROCESSING	0.68	LB/TON	1.360	0.041	1.360	0.024S	0.032C	0.032C	0.065	0.016	0.024
POLYPROPYLENE	0.81	LB/TON	0.400	0.040	0.400	0.008S	0.000C	0.000C	0.36	0.029	0.0
GRAIN HANDLING - PROCESSING	0.78	LB/TON	2.670	0.030	3.000	0.003S	0.150C	0.150C	1.6	0.048	4.9
IRON AND STEEL - SCARFING	0.82	LB/TON	2.160	0.030	6.000	0.037S	0.015C	0.015C	240.	88.7	38.5
CLAY SINTERING	0.90	LB/TON	0.138	0.030	3.000	0.028S	0.029S	0.029S	87.3	24.4	25.3
SOAP	0.80	LB/TON	2.410	0.026	26.000	0.033S	0.027S	0.027S	0.74	0.24	0.20
GLASS - OPAL	0.90	LB/TON	0.724	0.026	13.000	0.045S	0.000S	0.000S	0.55	0.25	0.0
FERTILIZER GTSP STORAGE	0.80	LB/TON	2.240	0.022	2.240	0.033S	0.028S	0.028S	0.46	0.15	0.13
STARCH	0.76	LB/TON	1.110	0.022	2.170	0.045S	0.042C	0.042C	1.2	0.53	0.60
GLASS - SODALIME	0.83	LB/TON	2.000	0.020	8.000	0.045S	0.018C	0.018C	4.3	1.9	0.83
PULPBOARD	0.80	LB/TON	1.890	0.020	2.000	0.033S	0.028S	0.028S	34.4	11.4	9.6
	0.98	LB/TON	0.096	0.014	0.096	0.031S	0.015C	0.015C	37.2	11.5	6.0

PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E S	E N	UNCENT E U	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
CONCRETE BATCHING	1.00	LB/TON	0.098	0.010	0.100	0.033S	0.030C	E6 TONS	327.	108.	112.
PETROLEUM REFINRY FCCU	0.85	LB/TON	0.066	0.010	0.242	0.031S	0.042C	E6 TONS	1506.	467.	766.
EXIST. NEW.	0.85		0.017								
SAND AND GRAVEL PROCESSING	0.80	LB/TON	0.100	0.005	0.100	0.050S	0.000S	E6 TONS	1142.	571.	0.0
PHOSPHATE ROCK - GRINDING	0.94	LB/TON	0.940	0.002	2.000	0.050S	0.043S	E6 TONS	25.7	12.8	11.1
PLYWOOD - VENEER	0.95	LB/TON	0.004	0.001	0.132	0.050S	0.025C	E6 TONS	22600.	11300.	6330.
PAINT MANUFACTURING	0.83	LB/TON	1.000	0.001	1.000	0.067S	0.026C	E6 TONS	4.9	3.3	1.5
LEAD ACID BATTERY	0.76	LB/PRD UNIT	0.032	0.000	0.130	0.040S	0.050C	E6 PU	80.0	32.0	50.3
BRICK HEATERS	1.00	LB/TON	0.007	0.000	0.007	0.033S	0.028S	E6 TONS	60.0	19.8	16.8
BOILERS < 3 MM BTU/HR	0.30	LB/E6 BTU	0.039	0.000	0.039	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
GAS TURBINE ENGINES ELECTRIC UTILITIES	0.22	LB/TON	3.740	0.000	3.740	0.020S	0.270S	E6 TONS	54.1	10.8	146.
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	1.180	0.000	1.180	0.020S	0.145S	E6 TONS	4.4	0.88	6.4

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS						
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985	TONS/YEAR T S N 1985
DIRECT FIRING OF HEATS	34.0	25.5	12.8	12.8	34.0	14.5	19500.
HYDROFLUORIC ACID	229.	7.7	4.2	84.7	11.5	11.5	0.0
FIBERGLASS MFG.-Wool PRODUCTS	55.0	3.3	1.2	13.7	4.9	4.9	0.0
WOOD PULPING KRAFT	3706.	93.5	64.5	2269.	105.	105.	0.0
CASTABLE REFRACTORY	53.9	0.82	0.55	26.3	1.3	1.2	0.0
INTERNAL COMB ENGS DIESEL DUALFUEL	36.1	28.2	22.5	22.5	36.1	34.1	90.0
FERRALLLOY - SUBMERGED ARC FURNACE	372.	16.0	11.5	230.	18.6	12.9	2000.
MIXED FUEL BOILERS - COAL & REFUSE	2879.	0.23	0.23	16.6	39.3	28.9	5600.
MINERAL WOOL	135.	14.8	10.4	79.1	17.7	16.6	10400.
CHARCOAL	181.	6.6	3.6	65.4	10.0	4.8	1000.
PET REF - PROC GAS COMB	2.9	1.9	1.3	1.3	2.9	1.6	5200.
WOOD PULPING SULFITE	31.8	3.5	2.4	19.5	4.0	4.0	1300.
CARBON BLACK - FURNACE PROCESS	215.	2.4	1.3	92.6	3.0	2.5	0.0
SUGAR CANE - BAGASSE BURNING	66.4	9.7	4.9	28.9	11.2	8.6	500.
WHISKEY	43.2	17.3	11.8	18.4	27.6	13.0	2500.
MINING/MILLING LEAD ORE	1.2	1.2	0.60	0.60	1.2	0.90	14600.
SEC ALUMINUM - SWEAT FURNACE	5.0	0.76	0.49	2.2	1.1	0.65	290.
PATHOLOGICAL INCINERATION	0.37	0.10	0.062	0.17	0.12	0.091	450.
PRIMARY ALUMINUM SMELTERS	523.	16.1	10.4	165.	33.1	17.5	20.0
FRIT MANUFACTURING	8.2	1.9	1.3	4.0	2.7	1.7	15600.
							940.
							0.693

1 - E / E
N S

PARTIAL LATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS				T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S	
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985				
CERAMIC CLAY	1384.	15.3	10.2	653.	21.7	17.5	4100.	0.362
SECONDARY ZINC - DISTILLATION	10.5	0.42	0.27	4.7	0.62	0.49	120.	0.373
PRIMARY ZINC SMELTERS	1267.	2.1	1.3	575.	2.3	2.0	240.	0.258
FERTILIZER - DAP	176.	4.9	2.7	63.0	7.6	5.0	2600.	0.535
SLUDGE INCINERATION	122.	1.5	0.98	23.4	2.3	2.3	0.0	-0.000
IRON AND STEEL - BLAST FURNACE	10336.	80.1	57.7	5769.	103.	103.	0.0	0.000
FIBERGLASS MFG.-TEXTILE PRODUCTS	48.2	0.50	0.19	5.7	1.6	0.93	660.	0.475
EXPLOSIVES - HIGH	94.4	1.2	0.65	21.1	2.9	2.6	290.	0.129
BRICK & RELATED CLAY PRODUCTS	2367.	39.6	26.5	1249.	50.2	37.8	12400.	0.523
PRIMARY COPPER	557.	38.8	24.8	265.	52.2	25.7	26400.	0.968
PRIMARY LEAD SMELTERS	272.	1.2	0.64	164.	1.1	0.80	250.	0.611
SECONDARY LEAD - BLAST	18.7	0.22	0.17	10.4	0.20	0.20	6.1	0.160
SECONDARY LEAD - REVERB	92.0	1.6	1.2	51.0	1.4	1.3	20.0	0.160
MIXED FUEL BOILERS - OIL & REFUSE	184.	0.052	0.052	1.1	9.1	1.9	7100.	0.796
FERTILIZER - AMMONIUM SULFATE	233.	7.9	4.4	42.8	23.8	13.9	9900.	0.510
MUNICIPAL INCINERATION	262.	41.9	25.5	109.	36.8	33.2	3600.	0.322
SEC ALUMINUM - REVERB FURNACE	167.	2.8	1.8	73.1	4.1	2.3	1800.	0.800
SECONDARY ZINC - SWEATING	2.8	0.32	0.21	1.3	0.46	0.26	190.	0.774
SECONDARY COPPER - HANDLING	91.2	2.0	1.3	41.1	2.9	1.5	1300.	0.872
PERLITE	7.6	1.2	0.81	3.9	1.6	0.96	600.	0.807

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				T N 1985	TONS/YEAR T-S-N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985				
SYNTHETIC FIBER - NYLON	30.6	0.94	0.52	5.1	3.1	1.8	1300.	0.510	
SEC MAGNESIUM	0.056	0.049	0.032	0.032	0.056	0.034	20.0	0.300	
VEGETABLE OIL PRODUCTION	240.	25.9	18.6	136.	32.9	19.7	13100.	0.927	
AUTOBODY INCINERATION	1.0	0.26	0.16	0.16	0.99	0.39	600.	0.726	
COTTON GINNING	73.2	11.3	6.5	37.6	12.8	8.0	4700.	0.770	
IRON & STEEL - EAF	809.	74.2	53.4	337.	70.1	61.4	8600.	0.520	
SODIUM CARBONATE - NATURAL	764.	2.9	1.6	124.	9.8	4.8	5000.	0.612	
CEMENT PLANTS	18749.	9548.	7161.	10464.	7179.	7173.	5200.	0.297	
DETERGENT	143.	1.7	1.7	101.	2.4	1.9	480.	0.700	
COFFEE ROASTING	4.8	0.52	0.31	2.9	0.52	0.43	90.0	0.446	
COKE OVENS - BY PRODUCT	189.	172.	124.	124.	189.	130.	59600.	0.912	
PHOSPHATE ROCK - CALCINING	67.9	1.1	0.55	22.9	1.6	1.0	620.	0.583	
SYNTHETIC FIBER - DACRON	24.9	1.2	0.68	3.0	5.6	1.8	3800.	0.778	
POLYVINYL CHLORIDE	83.3	3.6	3.6	39.2	7.6	4.0	3500.	0.690	
SYNTHETIC RESINS - POLYESTER	11.7	1.4	0.78	1.3	6.8	1.3	5500.	0.915	
SECONDARY COPPER - SMELTING	92.2	2.6	1.7	41.5	3.8	1.9	1800.	0.903	
GYPSUM	886.	9.6	6.8	592.	10.2	7.5	2700.	0.800	
BRASS & BRONZE SMELTING	10.5	0.49	0.31	6.7	0.38	0.33	40.0	0.767	
WOOD WASTE BOILERS	1464.	142.	71.1	650.	160.	79.4	80800.	0.907	
BEER PROCESSING	31.3	6.1	3.7	9.5	12.0	4.7	7200.	0.871	

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				T N 1985	TONS/YEAR T-S-N 1985	I - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985				
FERTILIZER - NITRATES									
FEED MILLING - ALFALFA DEHYDR.	101.	6.6	3.6	28.3	13.1	5.1	7900.	0.845	
LIME PROCESSING	71.9	2.1	1.5	36.2	3.0	1.7	1200.	0.879	
GRAIN HANDLING - TRANSFER	3891.	40.0	20.0	1194.	65.2	22.7	42400.	0.940	
STONE QUARRYING AND PROCESSING	2280.	191.	120.	1238.	221.	130.	90600.	0.897	
IRON & STEEL - BOF	10101.	186.	32.9	3798.	247.	156.	91100.	0.591	
IRON AND STEEL - SINTERING	3020.	8.3	6.0	1469.	10.6	10.6	0.0	0.000	
PHOSPHORIC ACID - THERMAL PROCESS	1697.	15.7	11.3	947.	20.2	14.0	6200.	0.700	
BLR 10-250 E6 BTU/HR	86.7	1.3	0.70	41.5	1.5	0.75	720.	0.941	
PHOSPHATE ROCK - DRYING/HANDLING	7255.	1197.	599.	3157.	1276.	856.	419000.	0.620	
STYRENE - BUTADIENE RUBBER	377.	6.5	3.2	134.	9.2	5.4	3700.	0.641	
DEEP FAT FRYING	0.75	0.62	0.60	0.60	0.75	0.62	120.	0.829	
FLY ASH SINTERING	19.4	7.6	5.5	9.2	11.6	5.6	6000.	0.983	
STEEL FOUNDRIES	621.	1.3	0.89	243.	2.3	1.3	990.	0.725	
SMOKED MEAT	237.	29.0	20.9	98.7	50.2	22.3	27900.	0.953	
FEED MILLING - OTHER	0.51	0.44	0.26	0.26	0.51	0.35	160.	0.667	
COAL CLEANING - THERMAL DRYING	151.	11.0	7.8	75.9	15.5	8.2	7300.	0.951	
ASPHALT SATURATOR	1002.	16.1	8.0	388.	18.6	11.1	7400.	0.709	
INDUSTRIAL/COMMERCIAL INCINERATION	25.8	3.8	2.2	12.0	4.7	2.3	2300.	0.945	
ANIMAL FEED DEFLUORINATION	114.	40.1	24.4	24.4	114.	25.3	88400.	0.990	
	56.2	0.41	0.25	33.8	0.41	0.25	160.	0.986	

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS						TONS/YEAR T - T S N 1985	I - E /E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
GRAIN HANDLING - SCREENING		158.	99.6	371.	184.	103.	80700.	0.963
GRAIN HANDLING - DRYING	684.							
BLR >250 E6 BTU/HR	137.	15.1	9.5	74.2	17.5	10.2	7300.	0.922
BOILERS .3-10 MM BTU/HR	43153.	2250.	1125.	12632.	2106.	1616.	490000.	0.500
CAST IRON FOUNDRY - ELEC. FURN.	1260.	827.	521.	521.	1260.	663.	597000.	0.808
ASPHALT BATCHING	40.0	16.9	12.2	12.2	40.0	12.5	27500.	0.990
ASPHALT BLOWING	7826.	131.	120.	4800.	154.	129.	25000.	0.734
SECONDARY LEAD - PBT FURNACE	7.4	1.7	0.97	3.5	2.1	1.0	1000.	0.964
FISH MEAL PROCESSING	0.041	0.030	0.023	0.023	0.041	0.023	10.0	0.970
POLYPROPYLENE	0.058	0.058	0.054	0.054	0.058	0.054	4.2	0.900
GRAIN HANDLING - PROCESSING	7.6	1.7	1.6	1.8	6.7	1.7	5000.	0.989
IRON AND STEEL - SCARFING	684.	212.	134.	371.	246.	135.	111000.	0.986
CLAY SINTERING	152.	5.4	3.9	84.9	7.0	4.6	2400.	0.783
SOAP	9.8	0.71	0.48	5.2	0.91	0.48	420.	0.989
GLASS - 8PAL	3.2	0.18	0.099	1.8	0.18	0.10	70.0	0.964
FERTILIZER GTSP STORAGE	0.52	0.41	0.27	0.27	0.52	0.28	240.	0.990
STARCH	1.5	0.50	0.27	0.54	0.75	0.28	460.	0.980
GLASS - SODALINE	16.9	3.5	1.9	7.8	4.2	2.0	2200.	0.990
PULPBBOARD	35.3	26.0	17.4	18.5	33.3	17.6	15700.	0.989
CONCRETE BATCHING	2.0	1.7	1.2	1.2	2.0	1.3	700.	0.854
	21.9	16.0	10.7	10.9	21.5	11.8	9600.	0.898

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS						TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
PETROLEUM REFINRY FCCU	234.	42.2	29.1	107.	38.1	34.4	3600.	0.412
SAND AND GRAVEL PROCESSING	45.7	45.7	22.8	22.8	45.7	24.0	21600.	0.950
PHOSPHATE ROCK - GRINDING	34.5	11.4	5.7	12.1	16.2	5.7	10500.	0.998
PLYWOOD - VENEER	1814.	42.9	21.5	709.	55.0	32.4	22600.	0.675
PAINT MANUFACTURING	2.7	2.0	0.68	0.68	2.7	0.68	1900.	0.999
LEAD ACID BATTERY	6.4	0.97	0.58	2.4	1.6	0.59	990.	0.996
* ORCHARD HEATERS	0.27	0.21	0.14	0.14	0.27	0.14	120.	1.000
* BOILERS <0.3 MM BTU/HR	191.	144.	115.	115.	191.	115.	76300.	1.000
* GAS TURBINE ENGINES ELECTRIC UTILITIES	82.3	22.3	17.8	17.8	82.3	17.8	64500.	1.000
* GAS TURBINE ENGINES GAS PIPELINE	5.4	2.2	1.8	1.8	5.4	1.8	3600.	1.000

E_s (Existing)

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			ALLOWABLE E S	E N		P	B	C	A 1975	B 1985	C 1985
DIRECT FIRING OF HEATS	0.62	LB/TON	2445.000	195.600	2445.000	0.050S	0.033S	E6 TONS	0.034	0.017	0.011
CEMENT PLANTS											
EXIST.	0.90	LB/TON	206.000	0.450	301.000	0.025S	0.030C	E6 TONS	103.	25.8	35.4
NEW	0.90		0.640								
PRIMARY COPPER											
	0.85	LB/TON	37.900	1.220	405.000	0.036S	0.030C	E6 TONS	2.4	0.87	0.83
HYDROFLUORIC ACID											
	0.98	LB/TON	35.000	35.000	700.000	0.045S	0.049S	E6 TONS	0.45	0.20	0.22
WHISKEY											
	0.95	LB/PRD UNIT	27.900	2.180	43.600	0.032S	0.060S	E6 PU	1.3	0.42	0.78
FERRONALLOY - SUBMERGED ARC FURNACE											
	0.90	LB/TON	22.800	4.560	456.000	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
PET REF - PROC GAS COMB											
	0.85	LB/E6 BTU	20.000	3.000	20.000	0.031S	0.042C	E12 BTU	0.23	0.070	0.12
CHARCOAL											
	0.85	LB/TON	19.500	3.500	352.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42
FIBERGLASS MFG.-WOOL PRODUCTS											
	0.70	LB/TON	8.640	8.640	96.000	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
VEGETABLE OIL PRODUCTION											
	0.92	LB/TON	8.630	0.630	63.000	0.028S	0.027S	E6 TONS	6.5	1.8	1.8
SEC ALUMINUM - SWEAT FURNACE											
	0.68	LB/TON	7.360	1.980	33.000	0.036S	0.047S	E6 TONS	0.30	0.11	0.14
DEEP FAT FRYING											
	0.81	LB/TON	7.130	0.119	11.900	0.028S	0.043C	E6 TONS	2.6	0.74	1.4
SEC MAGNESIUM											
	0.82	LB/TON	6.780	0.680	6.780	0.035S	0.016S	E6 TONS	0.017	0.0061	0.0028
SECONDARY COPPER - HANDLING											
	0.82	LB/TON	6.640	0.848	212.000	0.035S	0.037C	E6 TONS	0.73	0.25	0.32
INDUSTRIAL/COMMERCIAL INCINERATION											
	0.38	LB/TON	6.470	0.065	6.470	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
SECONDARY LEAD - REVERB											
EXIST.	0.68	LB/TON	6.440	1.050	277.000	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
NEW	0.68		1.250								
PRIMARY ALUMINUM SMELTERS											
	0.92	LB/TON	5.820	1.800	92.000	0.035S	0.075C	E6 TONS	6.7	2.1	6.4
FRIT MANUFACTURING											
	0.80	LB/TON	5.800	1.780	17.800	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
WOOD PULPING KRAFT											
	0.98	LB/TON	5.630	5.630	198.000	0.31S	0.012C	E6 TONS	33.9	10.5	4.3
INTERNAL COMB ENGS DIESEL DUALFUEL											
	0.58	LB/TON	5.410	4.610	5.410	0.020S	0.028S	E6 TONS	18.0	3.6	5.0

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCERT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			ALLOWABLE E	N		P	B	C	UNITS/YR	A 1975	B 1985
CASTABLE REFRACTORY	0.80	LB/TON	5.320	4.620	254.000	0.033S	0.043C	0.39	0.13	0.20	
FIXED FUEL BOILERS - COAL & REFUSE	0.58	LB/TON	5.000	3.660	366.000	0.000S	17.290S	0.16	0.0	27.0	
FIXED FUEL BOILERS - OIL & REFUSE	0.58	LB/TON	5.000	1.020	101.500	0.000S	17.290S	0.036	0.0	6.2	
SLUDGE INCINERATION	0.50	LB/TON	5.000	1.600	119.000	0.033S	0.250S	1.2	0.39	2.9	
EXIST. NEW	0.50		1.600								
COKE OVENS - BY PRODUCT	0.93	LB/TON	4.900	0.430	4.900	0.028S	0.010S	75.5	21.1	7.5	
SEC ALUMINUM - REVERB FURNACE	0.82	LB/TON	4.800	0.960	195.000	0.036S	0.047S	1.4	0.51	0.67	
PATHOLOGICAL INCINERATION	0.34	LB/TON	4.600	1.900	12.800	0.039S	0.026C	0.13	0.051	0.038	
EXIST. NEW	0.34		3.800								
MUNICIPAL INCINERATION	0.56	LB/TON	4.600	0.990	19.700	0.039S	0.046S	32.5	12.7	14.9	
EXIST. NEW	0.56		1.460								
ANIMAL FEED DEFLUBRINATION	0.90	LB/TON	4.570	0.063	625.000	0.040S	0.000S	0.20	0.080	0.0	
CAST IRON FOUNDRY - ELEC. FURN.	0.93	LB/TON	4.500	0.045	4.500	0.028S	0.136S	8.1	2.3	11.0	
IRON & STEEL - EAF	0.90	LB/TON	4.490	0.480	28.300	0.028S	0.073S	36.7	10.3	26.8	
EXIST. NEW	0.90		1.000								
PERLITE	0.82	LB/TON	4.350	0.840	21.000	0.029S	0.036S	0.65	0.19	0.23	
SECONDARY LEAD - BLAST	0.68	LB/TON	4.350	1.050	271.000	0.024S	0.032C	0.15	0.036	0.055	
EXIST. NEW	0.68		1.250								
MINERAL WOOL	0.82	LB/TON	4.270	3.630	32.400	0.029S	0.020S	8.4	2.5	1.7	
MINING/MILLING LEAD ORE	0.92	LB/TON	4.170	2.090	4.170	0.050S	0.000	0.62	0.31	0.0	
SYNTHETIC RESINS - POLYESTER	0.68	LB/TON	4.100	0.350	7.000	0.045S	0.170C	1.0	0.46	3.9	
PRIMARY ZINC SMELTERS	0.83	LB/TON	3.860	1.670	1665.000	0.036S	0.035C	1.3	0.47	0.53	
EXIST. NEW	0.83		2.250								
SECONDARY ZINC - SWEATING	0.82	LB/TON	3.860	0.872	23.600	0.035S	0.039C	0.20	0.070	0.093	

PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCENT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E	EMISSION N		P	B	C	A 1975	B 1985	
GAS TURBINE ENGINES	0.22	LB/TON	3.740	0.000	3.740	0.020S	0.270S	E6 TONS	54.1	10.8	146.
SUGAR CANE - BAGASSE BURNING	0.75	LB/TON	3.700	2.200	22.000	0.050S	0.015S	E6 TONS	7.0	3.5	1.0
FERTILIZER - DAP	0.89	LB/TON	3.530	1.640	82.000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
SECONDARY COPPER - SMELTING	0.82	LB/TON	3.470	0.338	84.600	0.035S	0.037C	E6 TONS	1.8	0.64	0.82
LIME PROCESSING	0.90	LB/TON	3.400	0.203	203.000	0.050S	0.050C	E6 TONS	26.1	13.1	16.4
BRASS & BRONZE SMELTING	0.80	LB/TON	3.250	0.280	70.000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW	0.80	LB/TON	1.200								
POLYVINYL CHLORIDE	0.82	LB/TON	3.180	0.350	35.000	0.000S	0.078C	E6 TONS	2.7	0.0055	3.1
CARBON BLACK - FURNACE PROCESS	0.77	LB/TON	3.100	2.200	220.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56
PRIMARY LEAD SMELTERS	0.99	LB/TON	3.060	1.190	790.000	0.036S	0.000	E6 TONS	0.76	0.28	0.0
EXIST.	0.85	LB/TON	3.060								
WASTE BOILERS	0.58	LB/TON	3.010	0.280	27.500	0.050S	0.012C	E6 TONS	163.	81.4	20.6
W99D PULPING SULFITE	0.98	LB/TON	3.000	3.000	24.000	0.031S	0.012C	E6 TONS	2.4	0.74	0.30
FIBERGLASS MFG.-TEXTILE PRODUCTS	0.70	LB/TON	2.790	1.460	84.000	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	2.770	1.320	130.500	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
CERAMIC CLAY	0.80	LB/TON	2.750	1.755	175.500	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
SECONDARY ZINC - DISTILLATION	0.82	LB/TON	2.710	1.700	46.000	0.035S	0.039C	E6 TONS	0.38	0.13	0.18
POLYPROPYLENE	0.78	LB/TON	2.670	0.030	3.000	0.003S	0.150C	E6 TONS	1.6	0.048	4.9
CLAY SINTERING	0.80	LB/TON	2.410	0.026	26.000	0.033S	0.027S	E6 TONS	0.74	0.24	0.20
PHOSPHORIC ACID - THERMAL PROCESS	0.81	LB/TON	2.270	0.134	134.000	0.045S	0.014C	E6 TONS	1.4	0.63	0.21
GLASS - OPAL	0.80	LB/TON	2.240	0.022	2.240	0.033S	0.028S	E6 TONS	0.46	0.15	0.13
STEEL FOUNDRIES	0.90	LB/TON	2.200	0.104	10.400	0.028S	0.073S	E6 TONS	29.3	8.2	21.4

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES		UNITS/YR	CAPACITY/PRODUCTION		C
			ALLOWABLE E	EMISSION M	UNCONT U	DECIMAL/YR P	C	A	B	1985
GRAIN HANDLING - PROCESSING	0.82	LB/TON	2.160	0.030	6.000	0.037S	0.015C	240.	88.7	38.5
BEER PROCESSING	0.81	LB/TON	2.050	0.270	5.450	0.040S	0.070C	7.2	2.9	7.0
COTTON GINNING	1.00	LB/BALE	2.090	0.480	12.000	0.042S	0.013S	10.8	4.5	1.4
FEED MILLING - OTHER	0.50	LB/TON	2.060	0.100	20.000	0.029S	0.035C	21.4	6.2	8.8
FEED MILLING - ALFALFA DEHYDR.	0.50	LB/TON	2.060	0.250	50.000	0.029S	0.035C	4.1	1.2	1.7
FERTILIZER - AMMONIUM SULFATE	0.84	LB/TON	2.040	1.000	20.000	0.045S	0.116C	9.3	4.2	18.5
STARCH	0.83	LB/TON	2.000	0.020	8.000	0.045S	0.018C	4.3	1.9	0.83
AUTOGRAVY INCINERATION	0.90	LB/PRD UNIT	1.970	0.540	2.000	0.039S	0.280S	0.29	0.11	0.82
GRAIN HANDLING - TRANSFER	0.82	LB/TON	1.940	0.200	20.000	0.037S	0.015C	240.	88.7	38.5
GLASS - SODALINE	0.80	LB/TON	1.890	0.020	2.000	0.033S	0.028S	34.4	11.4	9.6
FERTILIZER - NITRATES	0.77	LB/TON	1.640	0.254	12.720	0.045S	0.070C	10.5	4.7	10.2
GRAIN HANDLING - SCREENING	0.82	LB/TON	1.610	0.060	6.000	0.037S	0.015C	240.	88.7	38.5
SYNTHETIC FIBER - DACRON	0.68	LB/TON	1.580	0.350	7.000	0.045S	0.164C	2.3	1.0	8.2
EXPLOSIVES - HIGH	0.83	LB/TON	1.550	1.350	50.400	0.045S	0.094C	1.8	0.83	2.7
SYNTHETIC FIBER - NYLON	0.72	LB/TON	1.530	0.750	15.000	0.045S	0.127C	1.7	0.77	4.0
GYPSON	0.80	LB/TON	1.510	0.302	131.700	0.029S	0.006S	15.9	4.7	0.91
DETERGENT	0.90	LB/TON	1.500	0.450	90.000	0.000S	0.035C	2.5	0.0	1.0
IRON AND STEEL - BLAST FURNACE	0.90	LB/TON	1.500	1.500	150.000	0.028S	0.029S	119.	33.2	34.4
SECONDARY LEAD - PBT FURNACE	0.68	LB/TON	1.360	0.041	1.360	0.024S	0.032C	0.065	0.016	0.024
ASPHALT SATURATOR	0.90	LB/TON	1.330	0.073	7.300	0.042S	0.025S	6.3	2.6	1.6
ASPHALT BLOWING	0.90	LB/TON	1.180	0.042	4.200	0.042S	0.025S	3.1	1.3	0.79

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C
			ALLOWABLE E	EMISSION E		P	B	P	A	B	
			S	N	U				1975	1985	1985
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	1.180	0.000	1.180	0.020S	0.145S	0.145S	4.4	0.88	6.4
SODIUM CARBONATE - NATURAL	0.87	LB/TON	1.160	0.450	90.000	0.045S	0.130C	0.130C	5.8	2.6	13.8
FERTILIZER GTSP STORAGE	0.76	LB/TON	1.110	0.022	2.170	0.045S	0.042C	0.042C	1.2	0.53	0.60
PAINT MANUFACTURING	0.83	LB/TON	1.000	0.001	1.000	0.067S	0.026C	0.026C	4.9	3.3	1.5
PHOSPHATE ROCK - CALCINING	0.90	LB/TON	0.960	0.400	40.000	0.050S	0.048S	0.048S	2.5	1.3	1.2
PHOSPHATE ROCK - GRINDING	0.94	LB/TON	0.940	0.002	2.000	0.050S	0.043S	0.043S	25.7	12.8	11.1
COFFEE ROASTING	0.85	LB/TON	0.794	0.440	7.300	0.040S	0.000S	0.000S	1.5	0.62	0.0
GRAIN HANDLING - DRYING	0.82	LB/TON	0.770	0.060	6.000	0.037S	0.015C	0.015C	47.9	17.7	7.7
SOAP	0.90	LB/TON	0.724	0.026	13.000	0.045S	0.000S	0.000S	0.55	0.25	0.0
STYRENE - BUTADIENE RUBBER	0.75	LB/TON	0.700	0.120	0.700	0.003S	0.020C	0.020C	2.3	0.070	0.51
IRON AND STEEL - SINTERING	0.90	LB/TON	0.500	0.150	42.000	0.028S	0.029S	0.029S	69.6	19.5	20.2
COAL CLEANING - THERMAL DRYING	0.59	LB/TON	0.410	0.099	19.800	0.050S	0.029S	0.029S	133.	66.5	38.6
EXIST. NEW	0.59	LB/TON	0.340								
FISH MEAL PROCESSING	0.81	LB/TON	0.400	0.040	0.400	0.008S	0.000C	0.000C	0.36	0.029	0.0
FLY ASH SINTERING	0.86	LB/TON	0.400	0.110	110.000	0.033S	0.055C	0.055C	7.7	2.5	5.4
BLR 10-250 E6 BTU/HR	0.32	LB/E6 BTU	0.383	0.127	2.020	0.050S	0.014C	0.014C	19534.	9767.	2914.
EXIST. NEW	0.32	LB/E6 BTU	0.334								
STONE QUARRYING AND PROCESSING	0.80	LB/TON	0.379	0.155	15.500	0.050S	0.033S	0.033S	1225.	613.	404.
ASPHALT BATCHING	0.47	LB/TON	0.376	0.045	15.000	0.008S	0.050S	0.050S	1480.	118.	740.
EXIST. NEW	0.47	LB/TON	0.169								
PHOSPHATE ROCK - DRYING/HANDLING	0.87	LB/TON	0.340	0.122	14.000	0.050S	0.041S	0.041S	43.9	21.9	18.0
SMOKED MEAT	0.81	LB/TON	0.300	0.100	0.300	0.040S	0.017S	0.017S	3.6	1.4	0.61
BLR >250 E6 BTU/HR	0.58	LB/E6 BTU	0.277	0.050	3.110	0.050S	0.055C	0.055C	28011.	14006.	19836.
EXIST. NEW	0.58	LB/E6 BTU	0.100								

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			UNCENT E U	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION			C 1985
			ALLOWABLE E S	E N	E		P B	C	UNITS/YR	A 1975	B 1985		
BOILERS 3-10 MM BTU/HR	0.25	LB/E6 BTU	0.250	0.048		0.250	0.037S	0.043C	E12 BTU	26471.	9794.	13857.	
IRON & STEEL - B8F EXIST.	0.90	LB/TON	0.208	0.150		51.000	0.028S	0.048S	E6 TONS	88.9	24.9	42.7	
NEW	0.90		0.150										
IRON AND STEEL - SCARFING	0.90	LB/TON	0.138	0.030		3.000	0.028S	0.029S	E6 TONS	87.3	24.4	25.3	
SAND AND GRAVEL PROCESSING	0.80	LB/TON	0.100	0.005		0.100	0.050S	0.000S	E6 TONS	1142.	571.	0.0	
CONCRETE BATCHING	1.00	LB/TON	0.098	0.010		0.100	0.033S	0.030C	E6 TONS	327.	108.	112.	
PULPBOARD	0.98	LB/TON	0.096	0.014		0.096	0.031S	0.015C	E6 TONS	37.2	11.5	6.0	
PETROLEUM REFINRY FCCU EXIST.	0.85	LB/TON	0.066	0.010		0.242	0.031S	0.042C	E6 TONS	1506.	467.	766.	
NEW	0.85		0.017										
BOILERS <3 MM BTU/HR	0.30	LB/E6 BTU	0.039	0.000		0.039	0.020S	0.029C	E12 BTU	24572.	4914.	8131.	
LEAD ACID BATTERY	0.76	LB/PRD UNIT	0.032	0.000		0.130	0.040S	0.050C	E6 PU	80.0	32.0	50.3	
BRICK AND HEATERS	1.00	LB/TON	0.007	0.000		0.007	0.033S	0.028S	E6 TONS	60.0	19.8	16.8	
PLYWOOD - VENEER	0.95	LB/TON	0.004	0.001		0.132	0.050S	0.025C	E6 TONS	22600.	11300.	6330.	

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS						TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
DIRECT FIRING OF MEATS	34.0	25.5	12.8	12.8	34.0	14.5	19500.	0.920
CEMENT PLANTS	18749.	9548.	7161.	10464.	7179.	7173.	5200.	0.297
PRIMARY COPPER	557.	38.8	24.8	265.	52.2	25.7	26400.	0.968
HYDROFLUORIC ACID	229.	7.7	4.2	84.7	11.5	11.5	0.0	0.000
WHISKEY	43.2	17.3	11.8	18.4	27.6	13.0	14600.	0.922
FERRONALLOY - SUBMERGED ARC FURNACE	372.	16.0	11.5	230.	18.6	12.9	5600.	0.800
PET REF - PROC GAS COMB	2.9	1.9	1.3	1.3	2.9	1.6	1300.	0.850
CHARCOAL	181.	6.6	3.6	65.4	10.0	4.8	5200.	0.821
FIBERGLASS MFG.-Wool PRODUCTS	55.0	3.3	1.2	13.7	4.9	4.9	0.0	0.000
VEGETABLE OIL PRODUCTION	240.	25.9	18.6	136.	32.9	19.7	13100.	0.927
SEC ALUMINUM - SWEAT FURNACE	5.0	0.76	0.49	2.2	1.1	0.65	450.	0.731
DEEP FAT FRYING	19.4	7.6	5.5	9.2	11.6	5.6	6000.	0.983
SEC MAGNESIUM	0.056	0.049	0.032	0.032	0.056	0.034	20.0	0.900
SECONDARY COPPER - HANDLING	91.2	2.0	1.3	41.1	2.9	1.5	1300.	0.872
INDUSTRIAL/COMMERCIAL INCINERATION	114.	40.1	24.4	24.4	114.	25.3	88400.	0.990
SECONDARY LEAD - REVERB	92.0	1.6	1.2	51.0	1.4	1.3	20.0	0.160
PRIMARY ALUMINUM SMELTERS	523.	16.1	10.4	165.	33.1	17.5	15600.	0.691
FRIT MANUFACTURING	8.2	1.9	1.3	4.0	2.7	1.7	940.	0.693
WOOD PULPING KRAFT	3706.	93.5	64.5	2269.	105.	105.	0.0	0.000
INTERNAL COMB ENGS DIESEL DUALFUEL	36.1	28.2	22.5	22.5	36.1	34.1	2000.	0.148

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985	
CASTABLE REFRACTORY	59.9	0.82	0.55	26.3	1.3	1.2	0.132
MIXED FUEL BOILERS - COAL & REFUSE	2879.	0.23	0.23	16.6	39.3	28.9	0.268
MIXED FUEL BOILERS - OIL & REFUSE	184.	0.052	0.052	1.1	9.1	1.9	0.796
SLUDGE INCINERATION	122.	1.5	0.98	23.4	2.3	2.3	-0.000
COKE OVENS - BY PRODUCT	189.	172.	124.	124.	189.	130.	0.912
SEC ALUMINUM - REVERB FURNACE	167.	2.8	1.8	73.1	4.1	2.3	0.800
PATHOLOGICAL INCINERATION	0.37	0.10	0.062	0.17	0.12	0.091	0.500
MUNICIPAL INCINERATION	262.	41.9	25.5	109.	36.8	33.2	0.322
ANIMAL FEED DEFLORINATION	56.2	0.41	0.25	33.8	0.41	0.25	0.986
CAST IRON FOUNDRY - ELEC. FURN.	40.0	16.9	12.2	12.2	40.0	12.5	0.990
IRON & STEEL - EAF	809.	74.2	53.4	337.	70.1	61.4	0.520
PERLITE	7.6	1.2	0.81	3.9	1.6	0.96	0.807
SECONDARY LEAD - BLAST	18.7	0.22	0.17	10.4	0.20	0.20	0.160
MINERAL WOOL	135.	14.8	10.4	79.1	17.7	16.6	0.150
MINING/MILLING LEAD ORE	1.2	1.2	0.60	0.60	1.2	0.90	0.499
SYNTHETIC RESINS - POLYESTER	11.7	1.4	0.78	1.3	6.8	1.3	0.915
PRIMARY ZINC SHELTERS	1267.	2.1	1.3	575.	2.3	2.0	0.258
SECONDARY ZINC - SWEATING	2.8	0.32	0.21	1.3	0.46	0.26	0.774
* GAS TURBINE ENGINES ELECTRIC UTILITIES	82.3	22.3	17.8	17.8	82.3	17.8	1.000
SUGAR CANE - BAGASSE BURNING	66.4	9.7	4.9	28.9	11.2	8.6	0.405

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS				T S 1985	T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985				
FERTILIZER - DAP	176.	4.9	2.7	63.0	7.6	5.0	2600.	0.535
SECONDARY COPPER - SMELTING	92.2	2.6	1.7	41.5	3.8	1.9	1800.	0.903
LIME PROCESSING	3891.	40.0	20.0	1194.	65.2	22.7	42400.	0.940
BRASS & BRONZE SMELTING	10.5	0.49	0.31	6.7	0.38	0.33	40.0	0.767
POLYVINYL CHLORIDE	83.3	3.6	3.6	39.2	7.6	4.0	3500.	0.890
CARBON BLACK - FURNACE PROCESS	215.	2.4	1.3	92.6	3.0	2.5	500.	0.290
PRIMARY LEAD SMELTERS	272.	1.2	0.64	164.	1.1	0.80	250.	0.611
WOOD WASTE BOILERS	1464.	142.	71.1	650.	160.	79.4	80800.	0.907
WOOD PULPING SULFITE	31.8	3.5	2.4	19.5	4.0	4.0	0.0	0.000
FIBERGLASS MFG.-TEXTILE PRODUCTS	48.2	0.50	0.19	5.7	1.6	0.93	660.	0.475
BRICK & RELATED CLAY PRODUCTS	2367.	39.6	26.5	1249.	50.2	37.8	12400.	0.523
CERAMIC CLAY	1384.	15.3	10.2	653.	21.7	17.5	4100.	0.362
SECONDARY ZINC - DISTILLATION	10.5	0.42	0.27	4.7	0.62	0.49	120.	0.373
POLYPROPYLENE	7.6	1.7	1.6	1.8	6.7	1.7	5000.	0.989
CLAY SINTERING	9.8	0.71	0.48	5.2	0.91	0.48	420.	0.989
PHOSPHORIC ACID - THERMAL PROCESS	86.7	1.3	0.70	41.5	1.5	0.75	720.	0.941
GLASS - BPAL	0.52	0.41	0.27	0.27	0.52	0.28	240.	0.990
STEEL FOUNDRIES	237.	29.0	20.9	98.7	50.2	22.3	27900.	0.953
GRAIN HANDLING - PROCESSING	684.	212.	134.	371.	246.	135.	111000.	0.986
BEER PROCESSING					12.0	4.7	7200.	0.871

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS						TONS/YEAR T-T S N 1985	I - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
COTTON GINNING	73.2	11.3	6.5	37.6	12.8	8.0	4700.	0.770
FEED MILLING - OTHER	151.	11.0	7.8	75.9	15.5	8.2	7300.	0.951
FEED MILLING - ALFALFA DENYOR.	71.9	2.1	1.5	36.2	3.0	1.7	1200.	0.879
FERTILIZER - AMMONIUM SULFATE	233.	7.9	4.4	42.8	23.8	13.9	9900.	0.510
STARCH	16.9	3.5	1.9	7.8	4.2	2.0	2200.	0.990
AUTOBODY INCINERATION	1.0	0.26	0.16	0.16	0.99	0.39	600.	0.726
GRAIN HANDLING - TRANSFER	2280.	191.	120.	1238.	221.	130.	90600.	0.897
GLASS - SODALINE	35.3	26.0	17.4	18.5	33.3	17.6	15700.	0.989
FERTILIZER - NITRATES	101.	6.6	3.6	28.3	13.1	5.1	7900.	0.845
GRAIN HANDLING - SCREENING	684.	158.	99.6	371.	184.	103.	80700.	0.963
SYNTHETIC FIBER - DACRON	24.9	1.2	0.68	3.0	5.6	1.8	3800.	0.778
EXPLOSIVES - HIGH	94.4	1.2	0.65	21.1	2.9	2.6	290.	0.129
SYNTHETIC FIBER - NYLON	30.6	0.94	0.52	5.1	3.1	1.8	1300.	0.510
GYPSUM	886.	9.6	6.8	592.	10.2	7.5	2700.	0.800
DETERGENT	143.	1.7	1.7	101.	2.4	1.9	480.	0.700
IRON AND STEEL - BLAST FURNACE	10336.	80.1	57.7	5769.	103.	103.	0.0	0.000
SECONDARY LEAD - POT FURNACE	0.041	0.030	0.023	0.023	0.041	0.023	10.0	0.970
ASPHALT SATURATOR	25.8	3.8	2.2	12.0	4.7	2.3	2300.	0.945
ASPHALT BLOWING	7.4	1.7	0.97	3.5	2.1	1.0	1000.	0.964
* GAS TURBINE ENGINES GAS PIPELINE	5.4	2.2	1.8	1.8	5.4	1.8	3600.	1.000

* GAS TURBINE ENGINES GAS PIPELINE

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T-S-N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985		
SODIUM CARBONATE - NATURAL 764.		2.9	1.6	124.	9.8	4.8	0.612
FERTILIZER GTSP STORAGE 1.5		0.50	0.27	0.54	0.75	0.28	0.980
PAINT MANUFACTURING 2.7		2.0	0.68	0.68	2.7	0.68	0.999
PHOSPHATE ROCK - CALCINING 67.9		1.1	0.55	22.9	1.6	1.0	0.583
PHOSPHATE ROCK - GRINDING 34.5		11.4	5.7	12.1	16.2	5.7	0.998
COFFEE ROASTING 4.8		0.52	0.31	2.9	0.52	0.43	0.446
GRAIN HANDLING - DRYING 137.		15.1	9.5	74.2	17.5	10.2	0.922
SOAP 3.2		0.18	0.099	1.8	0.18	0.10	0.964
STYRENE - BUTADIENE RUBBER 0.75		0.62	0.60	0.60	0.75	0.62	0.829
IRON AND STEEL - SINTERING 1697.		15.7	11.3	94.7	20.2	14.0	0.700
COAL CLEANING - THERMAL DRYING 1002.		16.1	8.0	388.	18.6	11.1	0.709
FISH MEAL PROCESSING 0.058		0.058	0.054	0.054	0.058	0.054	0.900
FLY ASH SINTERING 621.		1.3	0.89	24.3	2.3	1.3	0.725
BLR 10-250 E6 BTU/HR 7255.		1197.	599.	3157.	1276.	856.	0.620
STONE QUARRYING AND PROCESSING 10101.		186.	92.9	3798.	24.7	156.	0.591
ASPHALT BATCHING 7826.		131.	120.	4800.	154.	129.	0.734
PHOSPHATE ROCK - DRYING/HANDLING 377.		6.5	3.2	134.	9.2	5.4	0.641
SMOKED MEAT 0.51		0.44	0.26	0.26	0.51	0.35	0.667
BLR >250 E6 BTU/HR 43153.		2250.	1125.	12632.	2106.	1616.	0.500
BOILERS 3-10 MM BTU/HR 1260.		827.	521.	521.	1260.	663.	0.808

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS						TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
IRON & STEEL - B8F	3020.	8.3	6.0	1469.	10.6	10.6	0.0	0.000
IRON AND STEEL - SCARFING	152.	5.4	3.9	84.9	7.0	4.6	2400.	0.783
SAND AND GRAVEL PROCESSING	45.7	45.7	22.8	22.8	45.7	24.0	21600.	0.950
CONCRETE BATCHING	21.9	16.0	10.7	10.9	21.5	11.8	9600.	0.898
PULPBORD	2.0	1.7	1.2	1.2	2.0	1.3	700.	0.854
PETROLEUM REFINRY FCCU	234.	42.2	29.1	107.	38.1	34.4	3600.	0.412
* BOILERS < 3 MM BTU/HR	191.	144.	115.	115.	191.	115.	76300.	1.000
LEAD ACID BATTERY	6.4	0.97	0.58	2.4	1.6	0.59	990.	0.996
* BRICK AND HEATERS	0.27	0.21	0.14	0.14	0.27	0.14	120.	1.000
PLYWOOD - VENEER	1814.	42.9	21.5	709.	55.0	32.4	22600.	0.675

E_s (New)

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E U	GROWTH RATES DECIMAL/YR		INDUSTRY CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	N		P B	P C	A 1975	B 1985	
PATHOLOGICAL INCINERATION										
EXIST=	0.34	LB/TON	4.600	1.900	12.800	0.039S	0.026C	0.13	0.051	0.038
NEW=	0.34		3.800							
PRIMARY ZINC SMELTERS										
EXIST=	0.83	LB/TON	3.860	1.670	1665.000	0.036S	0.035C	1.3	0.47	0.53
NEW=	0.83		2.250							
SLUDGE INCINERATION										
EXIST=	0.50	LB/TON	5.000	1.600	119.000	0.033S	0.250S	1.2	0.39	2.9
NEW=	0.50		1.600							
MUNICIPAL INCINERATION										
EXIST=	0.56	LB/TON	4.600	0.990	19.700	0.039S	0.046S	32.5	12.7	14.9
NEW=	0.56		1.460							
SECONDARY LEAD - BLAST										
EXIST=	0.68	LB/TON	4.350	1.050	271.000	0.024S	0.032C	0.15	0.036	0.055
NEW=	0.68		1.250							
SECONDARY LEAD - REVERB										
EXIST=	0.68	LB/TON	6.440	1.050	277.000	0.024S	0.032C	0.71	0.17	0.26
NEW=	0.68		1.250							
BRASS & BRONZE SMELTING										
EXIST=	0.80	LB/TON	3.250	0.280	70.000	0.036S	0.000S	0.38	0.13	0.0
NEW=	0.80		1.200							
IRON & STEEL - EAF										
EXIST=	0.90	LB/TON	4.490	0.480	28.300	0.022S	0.073S	36.7	10.3	26.8
NEW=	0.90		1.000							
CEMENT PLANTS										
EXIST=	0.90	LB/TON	206.000	0.450	301.000	0.025S	0.030C	103.	25.8	35.4
NEW=	0.90		0.640							
COAL CLEANING - THERMAL DRYING										
EXIST=	0.59	LB/TON	0.410	0.099	19.800	0.050S	0.029S	133.	66.5	38.6
NEW=	0.59		0.340							
BLR 10-250 E6 BTU/HR										
EXIST=	0.32	LB/E6 BTU	0.383	0.127	2.020	0.050S	0.014C	19534.	9767.	2914.
NEW=	0.32		0.334							
ASPHALT BATCHING										
EXIST=	0.47	LB/TON	0.376	0.045	15.000	0.008S	0.050S	1430.	118.	740.
NEW=	0.47		0.169							
IRON & STEEL - BRF										
EXIST=	0.90	LB/TON	0.208	0.150	51.000	0.028S	0.048S	88.9	24.9	42.7
NEW=	0.90		0.150							
BLR >250 E6 BTU/HR										
EXIST=	0.58	LB/E6 BTU	0.277	0.050	3.110	0.050S	0.055C	28011.	14006.	19836.
NEW=	0.58		0.100							

PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E S	UNCON E U	P B	P C		A 1975	B 1985	C 1985
PETROLEUM REFINRY FCCU		LB/TON	0.066	0.010	0.031S	0.042C		1506.	467.	766.
EXIST.	0.85		0.017							
NEW.	0.85									

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				T S 1985	T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985				
PATHOLOGICAL INCINERATION	0.37	0.10	0.062	0.17	0.12	0.091	20.0	0.500		
PRIMARY ZINC SHELTERS	1267.	2.1	1.3	575.	2.3	2.0	240.	0.258		
SLUDGE INCINERATION	122.	1.5	0.98	23.4	2.3	2.3	0.0	-0.000		
MUNICIPAL INCINERATION	262.	41.9	25.5	109.	36.8	33.2	3600.	0.322		
SECONDARY LEAD - BLAST	13.7	0.22	0.17	10.4	0.20	0.20	6.1	0.160		
SECONDARY LEAD - REVERB	92.0	1.6	1.2	51.0	1.4	1.3	20.0	0.160		
BRASS & BRONZE SMELTING	10.5	0.49	0.31	6.7	0.38	0.33	40.0	0.767		
IRON & STEEL - EAF	809.	74.2	53.4	337.	70.1	61.4	8600.	0.520		
CEMENT PLANTS	18749.	9548.	7161.	10464.	7179.	7173.	5200.	0.297		
COAL CLEANING - THERMAL DRYING	1002.	16.1	8.0	388.	18.6	11.1	7400.	0.709		
BLR 10-250 E6 BTU/HR	7255.	1197.	599.	3157.	1276.	856.	419000.	0.620		
ASPHALT BATCHING	7826.	131.	120.	4800.	154.	129.	25000.	0.734		
IRON & STEEL - BOF	3020.	8.3	6.0	1469.	10.6	10.6	0.0	0.000		
BLR >250 E6 BTU/HR	43153.	2250.	1125.	12632.	2106.	1616.	490000.	0.500		
PETROLEUM REFINRY FCCU	23.	42.2	29.1	107.	38.1	34.4	3600.	0.412		

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PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION ALLOWABLE E _S	EMISSION RATES		GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C
				E _N	UNCONT E _U	P	B	C	A 1975	B 1985	1985
DIRECT FIRING OF HEATS											
PRIMARY ZINC SHELTERS	0.62	LB/TON	2445.000	195.600	2445.000	0.050S	0.045S	0.033S	0.034	0.017	0.011
EXIST.	0.83	LB/TON	3.860	1.670	1665.000	0.036S	0.040S	0.035C	1.3	0.47	0.53
NEW	0.83		2.250								
PRIMARY LEAD SHELTERS											
EXIST.	0.99	LB/TON	3.060	1.190	790.000	0.036S	0.028S	0.000	0.76	0.28	0.0
NEW	0.85		3.060								
HYDROFLUORIC ACID											
ANIMAL FEED DEFLUBRINATION	0.98	LB/TON	35.000	35.000	700.000	0.045S	0.040S	0.049S	0.45	0.20	0.22
EXIST.	0.90	LB/TON	4.570	0.063	625.000	0.040S	0.028S	0.000S	0.20	0.080	0.0
FERRALLOY - SUBMERGED ARC FURNACE	0.90	LB/TON	22.800	4.560	456.000	0.036S	0.030C	0.015C	1.6	0.44	0.25
PRIMARY COPPER	0.85	LB/TON	37.900	1.220	405.000	0.000S	0.036S	0.030C	2.4	0.87	0.83
FIXED FUEL BOILERS - COAL & REFUSE	0.58	LB/TON	5.000	3.660	366.000	0.024S	0.025S	17.290S	0.16	0.0	27.0
CHARCOAL											
CEMENT PLANTS	0.85	LB/TON	19.500	3.500	352.000	0.045S	0.025S	0.043C	0.79	0.36	0.42
EXIST.	0.90	LB/TON	206.000	0.450	301.000	0.024S	0.032C	0.030C	103.	25.8	35.4
NEW	0.90		0.640								
SECONDARY LEAD - REVERB											
EXIST.	0.68	LB/TON	6.440	1.050	277.000	0.024S	0.032C	0.032C	0.71	0.17	0.26
NEW	0.68		1.250								
SECONDARY LEAD - BLAST											
EXIST.	0.68	LB/TON	4.350	1.050	271.000	0.024S	0.032C	0.032C	0.15	0.036	0.055
NEW	0.68		1.250								
CASTABLE REFRACTORY											
CARBON BLACK - FURNACE PROCESS	0.80	LB/TON	5.320	4.620	254.000	0.033S	0.045S	0.043C	0.39	0.13	0.20
EXIST.	0.77	LB/TON	3.100	2.200	220.000	0.035S	0.050S	0.025C	2.0	0.89	0.56
SECONDARY COPPER - HANDLING	0.82	LB/TON	6.640	0.848	212.000	0.031S	0.036S	0.037C	0.73	0.25	0.32
LINE PROCESSING	0.90	LB/TON	3.400	0.203	203.000	0.036S	0.042S	0.050C	26.1	13.1	16.4
WOOD PULPING KRAFT	0.98	LB/TON	5.630	5.630	198.000	0.033S	0.042S	0.012C	33.9	10.5	4.3
SEC ALUMINUM - REVERB FURNACE	0.82	LB/TON	4.800	0.960	195.000	0.033S	0.042S	0.047S	1.4	0.51	0.67
CERAMIC CLAY	0.80	LB/TON	2.750	1.755	175.500	0.033S	0.042S	0.042S	13.9	4.6	5.8

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			UNITS/YR	CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E	N		P	B	C		A 1975	B 1985	
IRON AND STEEL - BLAST FURNACE			1-500	1-500	150-000	0-028S	0-028S	0-029S	E6 TONS	119-	33-2	34-4
PHOSPHORIC ACID - THERMAL PROCESS	0-90	LB/TON	2-270	0-134	134-000	0-045S	0-045S	0-014C	E6 TONS	1-4	0-63	0-21
GYPSUM	0-81	LB/TON	1-510	0-302	131-700	0-029S	0-029S	0-006S	E6 TONS	15-9	4-7	0-91
BRICK & RELATED CLAY PRODUCTS	0-80	LB/TON	2-770	1-320	130-500	0-033S	0-033S	0-027S	E6 TONS	35-7	11-8	9-6
SLUDGE INCINERATION			5-000	1-600	119-000	0-033S	0-033S	0-250S	E6 TONS	1-2	0-39	2-9
EXIST- NEW	0-50 0-50	LB/TON	1-600									
FLY ASH SINTERING	0-86	LB/TON	0-400	0-110	110-000	0-033S	0-033S	0-055C	E6 TONS	7-7	2-5	5-4
FIXED FUEL BOILERS - OIL & REFUSE	0-58	LB/TON	5-000	1-020	101-500	0-000S	0-000S	17-290S	E6 TONS	0-036	0-0	6-2
FIBERGLASS MFG--WOB L PRODUCTS	0-70	LB/TON	8-640	8-640	96-000	0-063S	0-063S	0-042C	E6 TONS	1-1	0-68	0-55
PRIMARY ALUMINUM SMELTERS	0-92	LB/TON	5-820	1-800	92-000	0-035S	0-035S	0-075C	E6 TONS	6-0	2-1	6-4
SODIUM CARBONATE - NATURAL	0-87	LB/TON	1-160	0-450	90-000	0-045S	0-045S	0-130C	E6 TONS	5-8	2-6	13-8
DETERGENT	0-90	LB/TON	1-500	0-450	90-000	0-000S	0-000S	0-035C	E6 TONS	2-5	0-0	1-0
SECONDARY COPPER - SMELTING	0-82	LB/TON	3-470	0-338	84-600	0-035S	0-035S	0-037C	E6 TONS	1-8	0-64	0-82
FIBERGLASS MFG--TEXTILE PRODUCTS	0-70	LB/TON	2-780	1-460	84-000	0-063S	0-063S	0-122C	E6 TONS	0-52	0-32	1-1
FERTILIZER - DAP	0-89	LB/TON	3-530	1-640	82-000	0-045S	0-045S	0-054S	E6 TONS	3-1	1-4	1-7
BRASS & BRONZE SMELTING	EXIST- NEW	LB/TON	3-250 1-200	0-280	70-000	0-036S	0-036S	0-000S	E6 TONS	0-38	0-13	0-0
VEGETABLE OIL PRODUCTION	0-92	LB/TON	8-630	0-630	63-000	0-028S	0-028S	0-027S	E6 TONS	6-5	1-8	1-8
IRON & STEEL - BOF	EXIST- NEW	LB/TON	0-208 0-150	0-150	51-000	0-028S	0-028S	0-048S	E6 TONS	88-9	24-9	42-7
EXPLOSIVES - HIGH	0-83	LB/TON	1-550	1-350	50-400	0-045S	0-045S	0-094C	E6 TONS	1-8	0-83	2-7
FEED MILLING - ALFALFA DEHYDR.	0-50	LB/TON	2-060	0-250	50-000	0-029S	0-029S	0-035C	E6 TONS	4-1	1-2	1-7
SECONDARY ZINC - DISTILLATION	0-82	LB/TON	2-710	1-700	46-000	0-035S	0-035S	0-039C	E6 TONS	0-38	0-13	0-18

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	EMISSION E N		P	B	P	A 1975	B 1985	
WHISKEY			27.900	2.180	43.600	0.032S	0.060S	E6 PU	1.3	0.42	0.78
IRON AND STEEL - SINTERING	0.95	LB/PRD UNT									
	0.90	LB/TON	0.500	0.150	42.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2
PHOSPHATE ROCK - CALCINING	0.90	LB/TON	0.960	0.400	40.000	0.050S	0.048S	E6 TONS	2.5	1.3	1.2
POLYVINYL CHLORIDE	0.90	LB/TON	3.180	0.350	35.000	0.000S	0.078C	E6 TONS	2.7	0.0055	3.1
SEC ALUMINUM - SWEAT FURNACE	0.82	LB/TON	7.360	1.980	33.000	0.036S	0.047S	E6 TONS	0.30	0.11	0.14
PINERAL W80L	0.68	LB/TON	4.270	3.630	32.400	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
IRON & STEEL - EAF	0.90	LB/TON	4.490	0.480	28.300	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
EXIST. NEW	0.90	LB/TON	1.000								
W80D WASTE BOILERS	0.58	LB/TON	3.010	0.280	27.500	0.050S	0.012C	E6 TONS	163.	81.4	20.6
CLAY SINTERING	0.80	LB/TON	2.410	0.026	26.000	0.033S	0.027S	E6 TONS	0.74	0.24	0.20
W80D PULPING SULFITE	0.98	LB/TON	3.000	3.000	24.000	0.031S	0.012C	E6 TONS	2.4	0.74	0.30
SECONDARY ZINC - SWEATING	0.82	LB/TON	3.860	0.872	23.600	0.035S	0.039C	E6 TONS	0.20	0.070	0.093
SUGAR CANE - BAGASSE BURNING	0.75	LB/TON	3.700	2.200	22.000	0.050S	0.015S	E6 TONS	7.0	3.5	1.0
PERLITE	0.82	LB/TON	4.350	0.840	21.000	0.029S	0.036S	E6 TONS	0.65	0.19	0.23
GRAIN HANDLING - TRANSFER	0.82	LB/TON	1.940	0.200	20.000	0.037S	0.015C	E6 TONS	240.	88.7	38.5
FEED MILLING - OTHER	0.50	LB/TON	2.060	0.100	20.000	0.029S	0.035C	E6 TONS	21.4	6.2	8.8
PET REF - PROG GAS COMB	0.85	LB/E6 BTU	20.000	3.000	20.000	0.031S	0.042C	E12 BTU	0.23	0.070	0.12
FERTILIZER - AMMONIUM SULFATE	0.84	LB/TON	2.040	1.000	20.000	0.045S	0.116C	E6 TONS	9.3	4.2	18.5
COAL CLEANING - THERMAL DRYING	0.59	LB/TON	0.410	0.099	19.800	0.050S	0.029S	E6 TONS	133.	66.5	38.6
EXIST. NEW	0.59	LB/TON	0.340								
MUNICIPAL INCINERATION	0.56	LB/TON	4.600	0.990	19.700	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
EXIST. NEW	0.56	LB/TON	1.460								
FRUIT MANUFACTURING	0.80	LB/TON	5.800	1.780	17.800	0.033S	0.037S	E6 TONS	0.84	0.28	0.31

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES			CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N	UNCONT E U	DECIMAL/YR P B	P C	1975 A	1985 B	1985 C
								UNITS/YR		
STONE QUARRYING AND PROCESSING	0.80	LB/TON	0.379	0.155	15.500	0.050S	0.033S	1225.	613.	404.
SYNTHETIC FIBER - NYLON	0.72	LB/TON	1.530	0.750	15.000	0.045S	0.127C	1.7	0.77	4.0
ASPHALT BATCHING	0.47	LB/TON	0.376	0.045	15.000	0.008S	0.050S	1480.	118.	740.
EXIST. NEW	0.47		0.169							
PHOSPHATE ROCK - DRYING/HANDLING	0.87	LB/TON	0.340	0.122	14.000	0.050S	0.041S	43.9	21.9	18.0
SOAP										
PATHOLOGICAL INCINERATION	0.90	LB/TON	0.724	0.026	13.000	0.045S	0.000S	0.55	0.25	0.0
EXIST. NEW	0.34	LB/TON	4.600	1.900	12.800	0.039S	0.026C	0.13	0.051	0.038
FERTILIZER - NITRATES	0.77	LB/TON	3.800							
COTTON GINNING	1.00	LB/BALE	1.440	0.254	12.720	0.045S	0.070C	10.5	4.7	10.2
DEEP FAT FRYING	0.81	LB/TON	2.090	0.480	12.000	0.042S	0.013S	10.8	4.5	1.4
STEEL FOUNDRIES	0.90	LB/TON	7.130	0.119	11.900	0.028S	0.043C	2.6	0.74	1.4
STARCH			2.200	0.104	10.400	0.028S	0.073S	29.3	8.2	21.4
ASPHALT SATURATOR	0.83	LB/TON	2.000	0.020	8.000	0.045S	0.018C	4.3	1.9	0.83
COFFEE ROASTING	0.90	LB/TON	1.330	0.073	7.300	0.042S	0.025S	6.3	2.6	1.6
SYNTHETIC FIBER - DACRON	0.85	LB/TON	0.794	0.440	7.300	0.040S	0.000S	1.5	0.62	0.0
SYNTHETIC RESINS - POLYESTER	0.68	LB/TON	1.580	0.350	7.000	0.045S	0.164C	2.3	1.0	8.2
SEC MAGNESIUM	0.68	LB/TON	4.100	0.350	7.000	0.045S	0.170C	1.0	0.46	3.9
INDUSTRIAL/COMMERCIAL INCINERATION	0.82	LB/TON	6.780	0.680	6.780	0.035S	0.016S	0.017	0.0061	0.0028
GRAIN HANDLING - SCREENING	0.38	LB/TON	6.470	0.065	6.470	0.039S	0.110C	32.6	12.7	60.0
GRAIN HANDLING - DRYING	0.82	LB/TON	1.610	0.060	6.000	0.037S	0.015C	240.	88.7	38.5
GRAIN HANDLING - PROCESSING	0.82	LB/TON	0.770	0.060	6.000	0.037S	0.015C	47.9	17.7	7.7
			2.160	0.030	6.000	0.037S	0.015C	240.	88.7	38.5

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION ALLOWABLE E S	EMISSION RATES			GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
				N	U	P	B	C		A	B	C
										1975	1985	1985
										UNITS/YR		
BEER PROCESSING	0.81	LB/TON	2.090	0.270	5.450	0.040S	0.070C	E6 TONS		7.2	2.9	7.0
INTERNAL COMB ENGS DIESEL FUEL	0.58	LB/TON	5.410	4.610	5.410	0.020S	0.028S	E6 TONS		18.0	3.6	5.0
COKE OVENS - BY PRODUCT	0.93	LB/TON	4.900	0.430	4.900	0.028S	0.010S	E6 TONS		75.5	21.1	7.5
CAST IRON FOUNDRY - ELEC. FURN.	0.93	LB/TON	4.500	0.045	4.500	0.028S	0.136S	E6 TONS		8.1	2.3	11.0
ASPHALT BLOWING	0.90	LB/TON	1.180	0.042	4.200	0.042S	0.025S	E6 TONS		3.1	1.3	0.79
PINING/MILLING LEAD BRE	0.92	LB/TON	4.170	2.090	4.170	0.050S	0.000	E6 TONS		0.62	0.31	0.0
GAS TURBINE ENGINES ELECTRIC UTILITIES	0.22	LB/TON	3.740	0.000	3.740	0.020S	0.270S	E6 TONS		54.1	10.8	14.6
BLR >250 E6 BTU/HR EXIST. NEW	0.58 0.58	LB/E6 BTU	0.277 0.100	0.050	3.110	0.050S	0.055C	E12 BTU		28011.	14006.	19836.
POLYPROPYLENE	0.78	LB/TON	2.670	0.030	3.000	0.003S	0.150C	E6 TONS		1.6	0.048	4.9
IRON AND STEEL - SCARFING	0.90	LB/TON	0.138	0.030	3.000	0.028S	0.029S	E6 TONS		87.3	24.4	25.3
GLASS - BPAL	0.80	LB/TON	2.240	0.022	2.240	0.033S	0.028S	E6 TONS		0.46	0.15	0.13
FERTILIZER GTSP STORAGE	0.76	LB/TON	1.110	0.022	2.170	0.045S	0.042C	E6 TONS		1.2	0.53	0.60
BLR 10-250 E6 BTU/HR EXIST. NEW	0.32 0.32	LB/E6 BTU	0.383 0.334	0.127	2.020	0.050S	0.014C	E12 BTU		19534.	9767.	2914.
PHOSPHATE ROCK - GRINDING	0.94	LB/TON	0.940	0.002	2.000	0.050S	0.043S	E6 TONS		25.7	12.8	11.1
AUTOBODY INCINERATION	0.90	LB/PRD UNT	1.970	0.540	2.000	0.039S	0.280S	E6 PU		0.29	0.11	0.82
GLASS - SODALINE	0.80	LB/TON	1.890	0.020	2.000	0.033S	0.028S	E6 TONS		34.4	11.4	9.6
SECONDARY LEAD - PBT FURNACE	0.68	LB/TON	1.360	0.041	1.360	0.024S	0.032C	E6 TONS		0.065	0.016	0.024
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	1.180	0.000	1.180	0.020S	0.145S	E6 TONS		4.4	0.88	6.4
PAINT MANUFACTURING	0.83	LB/TON	1.000	0.001	1.000	0.067S	0.026C	E6 TONS		4.9	3.3	1.5
STYRENE - BUTADIENE RUBBER	0.75	LB/TON	0.700	0.120	0.700	0.003S	0.020C	E6 TONS		2.3	0.070	0.51

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E U	GROWTH RATES DECIMAL/YR			UNITS/YR	CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N		P B	P C	A 1975		B 1985	C 1985	
FISH MEAL PROCESSING	0.81	LB/TON	0.400	0.040	0.400	0.008S	0.000C	E6 TONS	0.36	0.029	0.0	
SMOKED MEAT	0.81	LB/TON	0.300	0.100	0.300	0.040S	0.017S	E6 TONS	3.6	1.4	0.61	
BOILERS - 3-10 MM BTU/HR	0.25	LB/E6 BTU	0.250	0.048	0.250	0.037S	0.043C	E12 BTU	26471.	9794.	13857.	
PETROLEUM REFINRY FCCU EXIST.	0.85	LB/TON	0.066	0.010	0.242	0.031S	0.042C	E6 TONS	1504.	467.	766.	
NEW FLYWOOD - VENEER	0.85		0.017									
LEAD ACID BATTERY	0.95	LB/TON	0.004	0.001	0.132	0.050S	0.025C	E6 TONS	22600.	11300.	6330.	
CONCRETE BATCHING	0.76	LB/PRD UNT	0.032	0.000	0.130	0.040S	0.050C	E6 PU	80.0	32.0	50.3	
SAND AND GRAVEL PROCESSING	1.00	LB/TON	0.098	0.010	0.100	0.033S	0.030C	E6 TONS	327.	108.	112.	
PULPBOARD	0.80	LB/TON	0.100	0.005	0.100	0.050S	0.000S	E6 TONS	1142.	571.	0.0	
BOILERS < 3 MM BTU/HR	0.98	LB/TON	0.096	0.014	0.096	0.031S	0.015C	E6 TONS	37.2	11.5	6.0	
BRICK AND HEATERS	0.30	LB/1/5 BTU	0.039	0.000	0.039	0.020S	0.029C	E12 BTU	24572.	4914.	8131.	
	1.00	LB/TON	0.007	0.000	0.007	0.033S	0.028S	E6 TONS	60.0	19.8	16.8	

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				T N 1985	TONS/YEAR T - T S N 1985	I - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985			
DIRECT FIRING OF HEATS									
PRIMARY ZINC SHELTERS	34.0	25.5	12.8	12.8	34.0	14.5	19500.	0.920	
PRIMARY LEAD SHELTERS	1267.	2.1	1.3	575.	2.3	2.0	240.	0.258	
HYDROFLUORIC ACID	272.	1.2	0.64	164.	1.1	0.80	250.	0.611	
ANIMAL FEED DEFLOURINATION	229.	7.7	4.2	84.7	11.5	11.5	0.0	0.000	
FERROALLOY - SUBMERGED ARC FURNACE	56.2	0.41	0.25	33.8	0.41	0.25	160.	0.956	
PRIMARY COPPER	372.	16.0	11.5	230.	18.6	12.9	5600.	0.800	
MIXED FUEL BOILERS - COAL & REFUSE	557.	38.8	24.8	265.	52.2	25.7	26400.	0.968	
CHARCOAL	2879.	0.23	0.23	16.6	39.3	28.9	10400.	0.268	
CEMENT PLANTS	181.	6.6	3.6	65.4	10.0	4.8	5200.	0.321	
SECONDARY LEAD - REVERB	18749.	9548.	7161.	10464.	7179.	7173.	5200.	0.297	
SECONDARY LEAD - BLAST	92.0	1.6	1.2	51.0	1.4	1.3	20.0	0.160	
CASTABLE REFRACTORY	18.7	0.22	0.17	10.4	0.20	0.20	6.1	0.160	
CARBON BLACK - FURNACE PROCESS	59.9	0.82	0.55	26.3	1.3	1.2	90.0	0.132	
SECONDARY COPPER - HANDLING	215.	2.4	1.3	92.6	3.0	2.5	500.	0.290	
LIME PROCESSING	91.2	2.0	1.3	41.1	2.9	1.5	1300.	0.872	
WOOD PULPING KRAFT	3891.	40.0	20.0	1194.	65.2	22.7	42400.	0.940	
SEC ALUMINUM - REVERB FURNACE	3706.	93.5	64.5	2269.	105.	105.	0.0	0.000	
CERAMIC CLAY	167.	2.8	1.8	73.1	4.1	2.3	1800.	0.800	
IRON AND STEEL - BLAST FURNACE	1384.	15.3	10.2	653.	21.7	17.5	4100.	0.362	
	10336.	80.1	57.7	5769.	103.	103.	0.0	0.000	

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985		
PHOSPHORIC ACID - THERMAL PROCESS	86.7	1.3	0.70	41.5	1.5	0.75	0.941
GYPSUM	886.	9.6	6.8	592.	10.2	7.5	0.800
BRICK & RELATED CLAY PRODUCTS	2367.	39.6	26.5	1249.	50.2	37.8	0.523
SLUDGE INCINERATION	122.	1.5	0.98	23.4	2.3	2.3	-0.000
FLY ASH SINTERING	621.	1.3	0.89	243.	2.3	1.3	0.725
MIXED FUEL BOILERS - OIL & REFUSE	184.	0.052	0.052	1.1	9.1	1.9	0.796
FIBERGLASS MFG.-WOOL PRODUCTS	55.0	3.3	1.2	13.7	4.9	4.9	0.000
PRIMARY ALUMINUM SMELTERS	523.	16.1	10.4	165.	33.1	17.5	0.691
SODIUM CARBONATE - NATURAL	764.	2.9	1.6	124.	9.8	4.8	0.612
DETERGENT	143.	1.7	1.7	101.	2.4	1.9	0.700
SECONDARY COPPER - SMELTING	92.2	2.6	1.7	41.5	3.8	1.9	0.903
FIBERGLASS MFG.-TEXTILE PRODUCTS	48.2	0.50	0.19	5.7	1.6	0.93	0.475
FERTILIZER - DAP	176.	4.9	2.7	63.0	7.6	5.0	0.535
BRASS & BRONZE SMELTING	10.5	0.49	0.31	6.7	0.38	0.33	0.767
VEGETABLE OIL PRODUCTION	240.	25.9	18.6	136.	32.9	19.7	0.927
IRON & STEEL - BOF	3020.	8.3	6.0	1469.	10.6	10.6	0.000
EXPLOSIVES - HIGH	94.4	1.2	0.65	21.1	2.9	2.6	0.129
FEED MILLING - ALFALFA DEHYDR.	71.9	2.1	1.5	36.2	3.0	1.7	0.879
SECONDARY ZINC - DISTILLATION	10.5	0.42	0.27	4.7	0.62	0.49	0.373
WHISKEY	43.2	17.3	11.8	18.4	27.6	13.0	0.922

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				T N 1985	T S 1985	T N 1985	TONS/YEAR T-S N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985					
IRON AND STEEL - SINTERING 1697.		15.7	11.3	947.	20.2	14.0				6200.	0.700
PHOSPHATE ROCK - CALCINING 67.9		1.1	0.55	22.9	1.6	1.0				620.	0.583
POLYVINYL CHLORIDE 83.3		3.6	3.6	39.2	7.6	4.0				3500.	0.890
SEC ALUMINUM - SWEAT FURNACE 5.0		0.76	0.49	2.2	1.1	0.65				450.	0.731
MINERAL WOOL 135.		14.8	10.4	79.1	17.7	16.6				1000.	0.150
IRON & STEEL - EAF 809.		74.2	53.4	337.	70.1	61.4				8600.	0.520
WROD WASTE BOILERS 1464.		142.	71.1	650.	160.	79.4				80800.	0.907
CLAY SINTERING 9.8		0.71	0.48	5.2	0.91	0.48				420.	0.989
WROD PULPING SULFITE 31.8		3.5	2.4	19.5	4.0	4.0				0.0	0.000
SECONDARY ZINC - SWEATING 2.8		0.32	0.21	1.3	0.46	0.26				190.	0.774
SUGAR CANE - BAGASSE BURNING 66.4		9.7	4.9	28.9	11.2	8.6				2500.	0.405
PERLITE 7.6		1.2	0.81	3.9	1.6	0.96				600.	0.807
GRAIN HANDLING - TRANSFER 2280.		191.	120.	1238.	221.	130.				90600.	0.897
FEED MILLING - OTHER 151.		11.0	7.8	75.9	15.5	8.2				7300.	0.951
PET REF - PROC GAS COMB 2.9		1.9	1.3	1.3	2.9	1.6				1300.	0.850
FERTILIZER - AMMONIUM SULFATE 233.		7.9	4.4	42.8	23.8	13.9				9900.	0.510
COAL CLEANING - THERMAL DRYING 1002.		16.1	8.0	388.	18.6	11.1				7400.	0.709
MUNICIPAL INCINERATION 262.		41.9	25.5	109.	36.8	33.2				3600.	0.322
FRUIT MANUFACTURING 8.2		1.9	1.3	4.0	2.7	1.7				940.	0.693
STONE QUARRYING AND PROCESSING 10101.		186.	92.9	3798.	247.	156.				91100.	0.591

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				T N 1985	T S 1985	T N 1985	T S 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR	T UE 1985	T S 1985					
SYNTHETIC FIBER - NYLON	30.6	0.94	0.52	5.1	3.1	1.8	1300.	0.510			
ASPHALT BATCHING	7826.	131.	120.	4800.	154.	129.	25000.	0.734			
PHOSPHATE ROCK - DRYING/HANDLING	377.	6.5	3.2	134.	9.2	5.4	3700.	0.641			
SBAP	3.2	0.18	0.099	1.8	0.18	0.10	70.0	0.264			
PATHOLOGICAL INCINERATION	0.37	0.10	0.062	0.17	0.12	0.091	20.0	0.500			
FERTILIZER - NITRATES	101.	6.6	3.6	28.3	13.1	5.1	7900.	0.845			
COTTON GINNING	73.2	11.3	6.5	37.6	12.8	8.0	4700.	0.770			
DEEP FAT FRYING	19.4	7.6	5.5	9.2	11.6	5.6	6000.	0.283			
STEEL FOUNDRIES	237.	29.0	20.9	98.7	50.2	22.3	27500.	0.953			
STARCH	16.9	3.5	1.9	7.8	4.2	2.0	2200.	0.990			
ASPHALT SATURATOR	25.8	3.8	2.2	12.0	4.7	2.3	2300.	0.945			
COFFEE ROASTING	4.8	0.52	0.31	2.9	0.52	0.43	90.0	0.446			
SYNTHETIC FIBER - DACRON	24.9	1.2	0.68	3.0	5.6	1.8	3800.	0.778			
SYNTHETIC RESINS - POLYESTER	11.7	1.4	0.78	1.3	6.8	1.3	5500.	0.915			
SEC MAGNESIUM	0.055	0.049	0.032	0.032	0.056	0.034	20.0	0.900			
INDUSTRIAL/COMMERCIAL INCINERATION	114.	40.1	24.4	24.4	114.	25.3	88400.	0.990			
GRAIN HANDLING - SCREENING	684.	158.	99.6	371.	184.	103.	80700.	0.963			
GRAIN HANDLING - DRYING	137.	15.1	9.5	74.2	17.5	10.2	7300.	0.922			
GRAIN HANDLING - PROCESSING	684.	212.	134.	371.	246.	135.	111000.	0.986			
BEER PROCESSING	31.3	6.1	3.7	9.5	12.0	4.7	7200.	0.871			

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS						TONS/YEAR T - T S N 1985	1 - E / E N
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
INTERNAL COMB ENGS DIESEL DUALFUEL		28.2						
COKE OVENS - BY PRODUCT	36.1		22.5	22.5	36.1	34.1	2000.	0.148
CAST IRON FOUNDRY - ELEC. FURN.	189.	172.	124.	124.	189.	130.	59600.	0.912
ASPHALT BLOWING	40.0	16.9	12.2	12.2	40.0	12.5	27500.	0.990
MINING/MILLING LEAD ORE	7.4	1.7	0.97	3.5	2.1	1.0	1000.	0.964
* GAS TURBINE ENGINES ELECTRIC UTILITIES	1.2	1.2	0.60	0.60	1.2	0.90	290.	0.499
BLR >250 E6 BTU/HR	82.3	22.3	17.8	17.8	82.3	17.8	64500.	1.000
POLYPROPYLENE	43153.	2250.	1125.	12632.	2106.	1616.	490000.	0.500
IRON AND STEEL - SCARFING	7.6	1.7	1.6	1.8	6.7	1.7	5000.	0.989
GLASS - 8PAL	152.	5.4	3.9	84.9	7.0	4.6	2400.	0.783
FERTILIZER GTSP STORAGE	0.52	0.41	0.27	0.27	0.52	0.28	240.	0.990
BLR 10-250 E6 BTU/HR	1.5	0.50	0.27	0.54	0.75	0.28	460.	0.980
PHOSPHATE ROCK - GRINDING	7255.	1197.	599.	3157.	1276.	856.	419000.	0.620
AUTOBODY INCINERATION	34.5	11.4	5.7	12.1	16.2	5.7	10500.	0.998
GLASS - SODALIME	1.0	0.26	0.16	0.16	0.99	0.39	600.	0.726
SECONDARY LEAD - PBT FURNACE	35.3	26.0	17.4	18.5	33.3	17.6	15700.	0.989
* GAS TURBINE ENGINES GAS PIPELINE	0.041	0.030	0.023	0.023	0.041	0.023	10.0	0.970
PAINT MANUFACTURING	5.4	2.2	1.8	1.8	5.4	1.8	3600.	1.000
STYRENE - BUTADIENE RUBBER	2.7	2.0	0.68	0.68	2.7	0.68	1900.	0.999
FISH MEAL PROCESSING	0.75	0.62	0.60	0.60	0.75	0.62	120.	0.829
	0.058	0.058	0.054	0.054	0.058	0.054	4.2	0.900

PARTICULATES

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS				T N 1985	TONS/YEAR T-S-N 1985	I - E / E N S
	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985			
SMOKED MEAT	0.51	0.44	0.26	0.26	0.35	160.	0.667
BOILERS .3-10 MM BTU/HR 1260.		827.	521.	521.	663.	597000.	0.808
PETROLEUM REFINRY FCCU 234.		42.2	29.1	107.	34.4	3600.	0.412
FLYWOOD - VENEER 1814.		42.9	21.5	709.	32.4	22600.	0.675
LEAD ACID BATTERY 6.4		0.97	3.58	2.4	0.59	990.	0.396
CONCRETE BATCHING 21.9		16.0	10.7	10.9	11.8	9600.	0.898
SAND AND GRAVEL PROCESSING 45.7		45.7	22.8	22.8	24.0	21600.	0.950
PULPBOARD 2.0		1.7	1.2	1.2	1.3	700.	0.854
• BOILERS <.3 MM BTU/HR 191.		144.	115.	115.	115.	76300.	1.000
• ORCHARD HEATERS 0.77		0.21	0.14	0.14	0.27	120.	1.000

$$\underline{1 - E_N/E_S}$$

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	UNCONT E U	GROWTH RATES DECIMAL/YR			UNITS/YR	CAPACITY/PRODUCTION		
					P	B	P		A	B	C
									1975	1985	1985
GAS TURBINE ENGINES ELECTRIC UTILITIES											
0.22 LB/TON			3.740	0.000	0.020S	0.270S	E6 TONS	54.1	10.8	146.	
GAS TURBINE ENGINES GAS PIPELINE			1.180	0.000	0.020S	0.145S	E6 TONS	4.4	0.88	6.4	
0.85 LB/TON											
ORCHARD HEATERS			0.007	0.000	0.033S	0.028S	E6 TONS	60.0	19.8	16.8	
1.00 LB/TON											
BOILERS < 3 MM BTU/HR			0.039	0.000	0.020S	0.029C	E12 BTU	24572.	4914.	8131.	
0.30 LB/E6 BTU											
PAINT MANUFACTURING			1.000	0.001	0.067S	0.026C	E6 TONS	4.9	3.3	1.5	
0.83 LB/TON											
PHOSPHATE ROCK - GRINDING			0.940	0.002	0.050S	0.043S	E6 TONS	25.7	12.8	11.1	
0.94 LB/TON											
LEAD ACID BATTERY			0.032	0.000	0.040S	0.050C	E6 PU	80.0	32.0	50.3	
0.76 LB/PRD UNT											
GLASS - 8PAL			2.240	0.022	0.033S	0.028S	E6 TONS	0.46	0.15	0.13	
0.80 LB/TON											
STARCH			2.000	0.020	0.045S	0.018C	E6 TONS	4.3	1.9	0.83	
0.83 LB/TON											
CAST IRON FOUNDRY - ELEC. FURN.			4.500	0.045	0.028S	0.136S	E6 TONS	8.1	2.3	11.0	
0.93 LB/TON											
INDUSTRIAL/COMMERCIAL INCINERATION			6.470	0.065	0.039S	0.110C	E6 TONS	32.6	12.7	60.0	
0.38 LB/TON											
GLASS - SODALINE			1.890	0.020	0.033S	0.028S	E6 TONS	34.4	11.4	9.6	
0.80 LB/TON											
CLAY SINTERING			2.410	0.026	0.033S	0.027S	E6 TONS	0.74	0.24	0.20	
0.80 LB/TON											
POLYPROPYLENE			2.670	0.030	0.003S	0.150C	E6 TONS	1.6	0.048	4.9	
0.78 LB/TON											
ANIMAL FEED DEFLURINATION			4.570	0.063	0.040S	0.000S	E6 TONS	0.20	0.080	0.0	
0.90 LB/TON											
GRAIN HANDLING - PROCESSING			2.160	0.030	0.037S	0.015C	E6 TONS	240.	88.7	38.5	
0.82 LB/TON											
DEEP FAT FRYING			7.130	0.119	0.028S	0.043C	E6 TONS	2.6	0.74	1.4	
0.81 LB/TON											
FERTILIZER GTSP STORAGE			1.110	0.022	0.045S	0.042C	E6 TONS	1.2	0.53	0.60	
0.76 LB/TON											
SECONDARY LEAD - POT FURNACE			1.360	0.041	0.024S	0.032C	E6 TONS	0.065	0.016	0.024	
0.68 LB/TON											
PRIMARY COPPER			37.900	1.220	0.036S	0.030C	E6 TONS	2.4	0.87	0.83	
0.85 LB/TON											
ASPHALT BLOWING			1.180	0.042	0.042S	0.025S	E6 TONS	3.1	1.3	0.79	
0.90 LB/TON											

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES			CAPACITY/PRODUCTION		C
			ALLOWABLE E S	EMISSION E N	UNCONT E U	DECIMAL/YR P B	P C	A 1975	B 1985	1985
SOAP										
GRAIN HANDLING - SCREENING	0.90	LB/TON	0.724	0.026	13.000	0.045S	0.000S	0.55	0.25	0.0
	0.82	LB/TON	1.610	0.060	6.000	0.037S	0.015C	240.	88.7	38.5
STEEL FOUNDRIES										
FEED MILLING - OTHER	0.90	LB/TON	2.200	0.104	10.400	0.028S	0.073S	29.3	8.2	21.4
	0.50	LB/10N	2.060	0.100	20.000	0.029S	0.035C	21.4	6.2	8.8
SAND AND GRAVEL PROCESSING	0.80	LB/TON	0.100	0.005	0.100	0.050S	0.000S	1142.	571.	0.0
ASPHALT SATURATOR										
PHOSPHORIC ACID - THERMAL PROCESS	0.90	LB/TON	1.330	0.073	7.300	0.042S	0.025S	6.3	2.6	1.6
	0.81	LB/TON	2.270	0.134	134.000	0.045S	0.014C	1.4	0.63	0.21
LIME PROCESSING	0.90	LB/TON	3.400	0.203	203.000	0.050S	0.050C	26.1	13.1	16.4
VEGETABLE OIL PRODUCTION	0.92	LB/TON	8.630	0.630	63.000	0.028S	0.027S	6.5	1.8	1.8
GRAIN HANDLING - DRYING	0.82	LB/TON	0.770	0.060	6.000	0.037S	0.015C	47.9	17.7	7.7
WHISKEY										
DIRECT FIRING OF HEATS	0.95	LB/PRD UNIT	27.900	2.180	43.600	0.032S	0.060S	1.3	0.42	0.78
	0.62	LB/TON	2445.000	195.600	2445.000	0.050S	0.033S	0.034	0.017	0.011
SYNTHETIC RESINS - POLYESTER	0.68	LB/TON	4.100	0.350	7.000	0.045S	0.170C	1.0	0.46	3.9
COKE OVENS - BY PRODUCT	0.93	LB/TON	4.900	0.430	4.500	0.028S	0.010S	75.5	21.1	7.5
WOOD WASTE BOILERS	0.58	LB/TON	3.010	0.280	27.500	0.050S	0.012C	163.	81.4	20.6
SECONDARY COPPER - SHELTING	0.82	LB/TON	3.470	0.338	84.600	0.035S	0.037C	1.8	0.64	0.82
FISH MEAL PROCESSING	0.81	LB/TON	0.400	0.040	0.400	0.008S	0.000C	0.36	0.029	0.0
SEC MAGNESIUM	0.82	LB/TON	6.780	0.680	6.780	0.035S	0.016S	0.017	0.0061	0.0028
CONCRETE BATCHING	1.00	LB/TON	0.098	0.010	0.100	0.033S	0.030C	327.	108.	112.
GRAIN HANDLING - TRANSFER	0.82	LB/TON	1.940	0.200	20.000	0.037S	0.015C	240.	88.7	38.5
POLYVINYL CHLORIDE	0.82	LB/TON	3.180	0.350	35.000	0.000S	0.078C	2.7	0.0055	3.1

PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES			CAPACITY/PRODUCTION		
			ALLOWABLE E S	E N	UNCONT E U	P B	P C	A 1975	B 1985	C 1985
FEED MILLING - ALFALFA DEHYDR.	0.50	LB/TON	2.060	0.250	50.000	0.029S	0.035C	4.1	1.2	1.7
SECONDARY COPPER - HANDLING	0.82	LB/TON	6.640	0.848	212.000	0.035S	0.037C	0.73	0.25	0.32
BEER PROCESSING	0.81	LB/TON	2.090	0.270	5.450	0.040S	0.070C	7.2	2.9	7.0
PULPBBOARD	0.98	LB/TON	0.096	0.014	0.096	0.031S	0.015C	37.2	11.5	6.0
PET REF - PROC GAS COMB	0.85	LB/E6 BTU	20.000	3.000	20.000	0.031S	0.042C	0.23	0.070	0.12
FERTILIZER - NITRATES	0.77	LB/TON	1.640	0.254	12.720	0.045S	0.070C	10.5	4.7	10.2
STYRENE - BUTADIENE RUBBER	0.75	LB/TON	0.700	0.120	0.700	0.003S	0.020C	2.3	0.070	0.51
CHARCOAL	0.85	LB/TON	19.500	3.500	352.000	0.045S	0.043C	0.79	0.36	0.42
BOILERS - 3-10 MM BTU/HR	0.25	LB/E6 BTU	0.250	0.048	0.250	0.037S	0.043C	26471.	9794.	13857.
PERLITE	0.82	LB/TON	4.350	0.840	21.000	0.029S	0.036S	0.65	0.19	0.23
SEC ALUMINUM - REVERB FURNACE	0.82	LB/TON	4.800	0.960	195.000	0.036S	0.047S	1.4	0.51	0.67
FERRALLBY - SUBMERGED ARC FURNACE	0.90	LB/TON	22.800	4.560	456.000	0.028S	0.015C	1.6	0.44	0.25
GYPSUM	0.80	LB/TON	1.510	0.302	131.700	0.029S	0.006S	15.9	4.7	0.91
MIXED FUEL BOILERS - OIL & REFUSE	0.58	LB/TON	5.000	1.020	101.500	0.000S	17.290S	0.036	0.0	6.2
IRON AND STEEL - SCARFING	0.90	LB/TON	0.138	0.030	3.000	0.028S	0.029S	87.3	24.4	25.3
SYNTHETIC FIBER - DACRON	0.68	LB/TON	1.580	0.350	7.000	0.045S	0.164C	2.3	1.0	8.2
SECONDARY ZINC - SWEATING	0.82	LB/TON	3.960	0.872	23.600	0.035S	0.039C	0.20	0.070	0.093
COTTON GINNING	1.00	LB/BALE	2.090	0.480	12.000	0.042S	0.013S	10.8	4.5	1.4
BRASS & BRONZE SMELTING	0.80	LB/TON	3.250	0.280	70.000	0.036S	0.000S	0.38	0.13	0.0
EXIST. NEW.	0.80	LB/TON	1.200							
ASPHALT BATCHING	0.47	LB/TON	0.376	0.045	15.000	0.008S	0.050S	1480.	118.	740.
EXIST. NEW.	0.47	LB/TON	0.169							

PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES			INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N	UNCERT E U	P B	P C	A 1975	B 1985	C 1985
FERTILIZER - AMMONIUM SULFATE	0.84	LB/TON	2.040	1.000	20.000	0.0455	0.116C	9.3	4.2	18.5
SYNTHETIC FIBER - NYLON	0.72	LB/TON	1.530	0.750	15.000	0.0455	0.127C	1.7	0.77	4.0
FATHOLOGICAL INCINERATION	0.34	LB/TON	4.600	1.900	12.800	0.0395	0.026C	0.13	0.051	0.038
EXIST. NEW	0.34		3.800							
BLR >250 E6 BTU/HR	0.58	LB/E6 BTU	0.277	0.050	3.110	0.0505	0.055C	28011.	14006.	19836.
EXIST. NEW	0.58		0.100							
PINING/MILLING LEAD ORE	0.92	LB/TON	4.170	2.090	4.170	0.0505	0.000	0.62	0.31	0.0
FIBERGLASS MFG.-TEXTILE PRODUCTS	0.70	LB/TON	2.780	1.460	84.000	0.0635	0.122C	0.52	0.32	1.1
COFFEE ROASTING	0.85	LB/TON	0.794	0.440	7.300	0.0405	0.0005	1.5	0.62	0.0
PETROLEUM REFINRY FCCU	0.85	LB/TON	0.066	0.010	0.242	0.0315	0.042C	1506.	467.	766.
EXIST. NEW	0.85		0.017							
SUGAR CANE - BAGASSE BURNING	0.75	LB/TON	3.700	2.200	22.000	0.0505	0.0155	7.0	3.5	1.0
SECONDARY ZINC - DISTILLATION	0.82	LB/TON	2.710	1.700	46.000	0.0355	0.039C	0.38	0.13	0.18
CERAMIC CLAY	0.80	LB/TON	2.750	1.755	175.500	0.0335	0.0425	13.9	4.6	5.8
MUNICIPAL INCINERATION	0.56	LB/TON	4.600	0.990	19.700	0.0395	0.0465	32.5	12.7	14.9
EXIST. NEW	0.56		1.460							
CEMENT PLANTS	0.90	LB/TON	206.000	0.450	301.000	0.0255	0.030C	103.	25.8	35.4
EXIST. NEW	0.90		0.640							
CARBON BLACK - FURNACE PROCESS	0.77	LB/TON	3.100	2.200	220.000	0.0455	0.025C	2.0	0.89	0.56
PIRED FUEL BOILERS - COAL & REFUSE	0.58	LB/TON	5.000	3.660	366.000	0.0005	17.2905	0.16	0.0	27.0
EXIST. NEW	0.83		3.860							
PRIMARY ZINC SMELTERS	0.83	LB/TON	2.250	1.670	1665.000	0.0365	0.035C	1.3	0.47	0.53
EXIST. NEW	0.83		2.250							
SECONDARY LEAD - REVERB	0.68	LB/TON	6.440	1.050	277.000	0.0245	0.032C	0.71	0.17	0.26
EXIST. NEW	0.68		1.250							
SECONDARY LEAD - BLAST	0.68	LB/TON	4.350	1.050	271.000	0.0245	0.032C	0.15	0.036	0.055
EXIST. NEW	0.68		1.250							

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	EMISSION E N	UNCONT E U	P B	P C	A 1975	B 1985	
MINERAL WOOL	0.82	LB/TON	4.270	3.630	32.400	0.029S	0.020S	8.4	2.5	1.7
INTERNAL COMB ENGS DIESEL DUALFUEL	0.58	LB/TON	5.410	4.610	5.410	0.020S	0.028S	18.0	3.6	5.0
CASTABLE REFRACTORY	0.80	LB/TON	5.320	4.620	254.000	0.033S	0.043C	0.39	0.13	0.20
EXPLOSIVES - HIGH	0.83	LB/TON	1.550	1.350	50.400	0.045S	0.094C	1.8	0.83	2.7
HYDROFLUORIC ACID	0.98	LB/TON	35.000	35.000	700.000	0.045S	0.049S	0.45	0.20	0.22
IRON AND STEEL - BLAST FURNACE	0.90	LB/TON	1.500	1.500	150.000	0.028S	0.029S	119.	33.2	34.4
IRON & STEEL - BOF	0.90	LB/TON	0.208	0.150	51.000	0.028S	0.048S	88.9	24.9	42.7
EXIST. NEW.	0.90	LB/TON	0.150							
FIBERGLASS MFG.--WOOL PRODUCTS	0.70	LB/TON	8.640	8.640	96.000	0.063S	0.042C	1.1	0.68	0.55
WOOD PULPING KRAFT	0.98	LB/TON	5.630	5.630	198.000	0.031S	0.012C	33.9	10.5	4.3
WOOD PULPING SULFITE	0.98	LB/TON	3.000	3.000	24.000	0.031S	0.012C	2.4	0.74	0.30
SLUDGE INCINERATION	0.50	LB/TON	5.000	1.600	119.000	0.033S	0.250S	1.2	0.39	2.9
EXIST. NEW.	0.50	LB/TON	1.600							

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985		
* GAS TURBINE ENGINES ELECTRIC UTILITIES	82.3	22.3	17.8	17.8	82.3	64500.	1.000
* GAS TURBINE ENGINES GAS PIPELINE	5.4	2.2	1.8	1.8	5.4	3600.	1.000
* ORCHARD HEATERS	0.27	0.21	0.14	0.14	0.27	120.	1.000
* BOILERS <0.3 MM BTU/HR	191.	144.	115.	115.	191.	76300.	1.000
PAINT MANUFACTURING	2.7	2.0	0.68	0.68	2.7	1900.	0.999
PHOSPHATE ROCK - GRINDING	34.5	11.4	5.7	12.1	16.2	10500.	0.998
LEAD ACID BATTERY	6.4	0.97	0.58	2.4	1.6	990.	0.996
GLASS - 6PAL	0.52	0.41	0.27	0.27	0.52	240.	0.990
STARCH	16.9	3.5	1.9	7.8	4.2	2200.	0.990
CAST IRON FOUNDRY - ELEC. FURN.	40.0	16.9	12.2	12.2	40.0	27500.	0.990
INDUSTRIAL/COMMERCIAL INCINERATION	114.	40.1	24.4	24.4	114.	88400.	0.990
GLASS - SODALINE	35.3	26.6	17.4	18.5	33.3	15700.	0.989
CLAY SINTERING	9.8	0.71	0.48	5.2	0.91	420.	0.989
POLYPROPYLENE	7.6	1.7	1.6	1.8	6.7	5000.	0.989
ANIMAL FEED DEFLUORINATION	56.2	0.41	0.25	33.8	0.41	160.	0.986
GRAIN HANDLING - PROCESSING	684.	212.	134.	371.	246.	111000.	0.986
DEEP FAT FRYING	19.4	7.6	5.5	9.2	11.6	6000.	0.983
FERTILIZER GTSP STORAGE	1.5	0.50	0.27	0.54	0.75	460.	0.980
SECONDARY LEAD - PBT FURNACE	0.041	0.030	0.023	0.023	0.041	10.0	0.970
PRIMARY COPPER	557.	38.8	24.8	265.	52.2	26400.	0.968

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1965	T A 1975	EMISSIONS			T S N 1985	T S N 1985	T S N 1985
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985			
ASPHALT BLOWING	7.4	1.7	0.97	3.5	2.1	1.0	1000.	0.964
SOAP	3.2	0.18	0.099	1.8	0.18	0.10	70.0	0.964
GRAIN HANDLING - SCREENING	684.	158.	99.6	371.	184.	103.	80700.	0.963
STEEL FOUNDRIES	237.	29.0	20.9	98.7	50.2	22.3	27900.	0.953
FEED MILLING - OTHER	151.	11.0	7.8	75.9	15.5	8.2	7300.	0.951
SAND AND GRAVEL PROCESSING	45.7	45.7	22.8	22.8	45.7	24.0	21600.	0.950
ASPHALT SATURATOR	25.8	3.8	2.2	12.0	4.7	2.3	2300.	0.945
PHOSPHORIC ACID - THERMAL PROCESS	86.7	1.3	0.70	41.5	1.5	0.75	720.	0.941
LIME PROCESSING	3891.	40.0	20.0	1194.	65.2	22.7	42400.	0.940
VEGETABLE OIL PRODUCTION	240.	25.9	18.6	136.	32.9	19.7	13100.	0.927
GRAIN HANDLING - DRYING	137.	15.1	9.5	74.2	17.5	10.2	7300.	0.922
WHISKEY	43.2	17.3	11.8	18.4	27.6	13.0	14600.	0.922
DIRECT FIRING OF MEATS	34.0	25.5	12.8	12.8	34.0	14.5	19500.	0.920
SYNTHETIC RESINS - POLYESTER	11.7	1.4	0.78	1.3	6.8	1.3	5500.	0.915
COKE OVENS - BY PRODUCT	189.	172.	124.	124.	189.	130.	59600.	0.912
WOOD WASTE BOILERS	144.	142.	71.1	650.	160.	79.4	80800.	0.907
SECONDARY COPPER - SMELTING	92.2	2.6	1.7	41.5	3.8	1.9	1800.	0.903
FISH MEAL PROCESSING	0.058	0.058	0.054	0.054	0.058	0.054	4.2	0.900
SEC MAGNESIUM	0.036	0.049	0.032	0.032	0.056	0.034	20.0	0.900
CONCRETE BATCHING	21.9	16.0	10.7	10.9	21.5	11.8	9600.	0.898

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS			T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985			
GRAIN HANDLING - TRANSFER 2280.		191.	120.	1238.	221.	130.	90600.	0.897
POLYVINYL CHLORIDE 83.3		3.6	3.6	39.2	7.6	4.0	3500.	0.890
FEED MILLING - ALFALFA DEHYDR. 71.9		2.1	1.5	36.2	3.0	1.7	1200.	0.879
SECONDARY COPPER - HANDLING 91.2		2.0	1.3	41.1	2.9	1.5	1300.	0.872
BEER PROCESSING 31.3		6.1	3.7	9.5	12.0	4.7	7200.	0.871
PULPBAGARD 2.0		1.7	1.2	1.2	2.0	1.3	700.	0.854
PET REF - PROC GAS COMB 2.9		1.9	1.3	1.3	2.9	1.6	1300.	0.850
FERTILIZER - NITRATES 101.		6.6	3.6	28.3	13.1	5.1	7900.	0.845
STYRENE - BUTADIENE RUBBER 0.75		0.62	0.60	0.60	0.75	0.62	120.	0.829
CHARCOAL 181.		6.6	3.6	65.4	10.0	4.8	5200.	0.821
BOILERS .3-10 MM BTU/HR 1260.		827.	521.	521.	1260.	663.	597000.	0.808
PERLITE 7.6		1.2	0.81	3.9	1.6	0.96	600.	0.807
SEC ALUMINUM - REVERB FURNACE 167.		2.8	1.8	73.1	4.1	2.3	1800.	0.800
FERRALLLOY - SUBMERGED ARC FURNACE 372.		16.0	11.5	230.	18.6	12.9	5600.	0.800
GYPSUM 886.		9.6	6.8	592.	10.2	7.5	2700.	0.800
MIXED FUEL BOILERS - OIL & REFUSE 184.		0.052	0.052	1.1	9.1	1.9	7100.	0.796
IRON AND STEEL - SCARFING 152.		5.4	3.9	84.9	7.0	4.6	2400.	0.783
SYNTHETIC FIBER - DACRON 24.9		1.2	0.68	3.0	5.6	1.8	3800.	0.778
SECONDARY ZINC - SWEATING 2.8		0.32	0.21	1.3	0.46	0.26	190.	0.774
COTTON GINNING 73.2		11.3	6.5	37.6	12.8	8.0	4700.	0.770

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				TONS/YEAR T S N 1985	1 - E/E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
BRASS & BRONZE SMELTING	10.5	0.49	0.31	6.7	0.38	0.33	40.0	0.767
ASPHALT BATCHING	7826.	131.	120.	4800.	154.	129.	25000.	0.734
SEC ALUMINUM - SWEAT FURNACE	5.0	0.76	0.49	2.2	1.1	0.65	450.	0.731
AUTOBODY INCINERATION	1.0	0.26	0.16	0.16	0.99	0.39	600.	0.726
FLY ASH SINTERING	621.	1.3	0.89	24.3	2.3	1.3	990.	0.725
COAL CLEANING - THERMAL DRYING	1002.	16.1	8.0	388.	18.6	11.1	7400.	0.709
IRON AND STEEL - SINTERING	1697.	15.7	11.3	94.7	20.2	14.0	6200.	0.700
DETERGENT	143.	1.7	1.7	101.	2.4	1.9	480.	0.700
FRIT MANUFACTURING	8.2	1.9	1.3	4.0	2.7	1.7	940.	0.693
PRIMARY ALUMINUM SMELTERS	523.	16.1	10.4	165.	33.1	17.5	15600.	0.691
PLYWOOD - VENEER	1814.	42.9	21.5	709.	55.0	32.4	22600.	0.675
SHOKED HEAT	0.51	0.44	0.26	0.26	0.51	0.35	160.	0.667
PHOSPHATE ROCK - DRYING/HANDLING	377.	6.5	3.2	134.	9.2	5.4	3700.	0.641
BLR 10-250 E6 BTU/HR	7255.	1197.	599.	3157.	1276.	856.	419000.	0.620
SODIUM CARBONATE - NATURAL	764.	2.9	1.6	124.	9.8	4.8	5000.	0.612
PRIMARY LEAD SMELTERS	272.	1.2	0.64	164.	1.1	0.80	250.	0.611
STONE QUARRYING AND PROCESSING	10101.	186.	92.9	3798.	247.	156.	91100.	0.591
PHOSPHATE ROCK - CALCINING	67.9	1.1	0.55	22.9	1.6	1.0	620.	0.583
FERTILIZER - DAP	176.	4.9	2.7	63.0	7.6	5.0	2600.	0.535
BRICK & RELATED CLAY PRODUCTS	2367.	39.6	26.5	1249.	50.2	37.8	12400.	0.523

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					T N S 1985	T N S 1985	T N S 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985				
IRON & STEEL - EAF	809.	74.2	53.4	337.	70.1	61.4	8600.	0.520	
FERTILIZER - AMMONIUM SULFATE	233.	7.9	4.4	42.8	23.8	13.9	9900.	0.510	
SYNTHETIC FIBER - NYLON	30.6	0.94	0.52	5.1	3.1	1.8	1300.	0.510	
PATHOLOGICAL INCINERATION	0.37	0.10	0.062	0.17	0.12	0.091	20.0	0.500	
BLR >250 E6 BTU/HR	43153.	2250.	1125.	12632.	2106.	1616.	490000.	0.500	
MINING/MILLING LEAD BRE	1.2	1.2	0.60	0.60	1.2	0.30	290.	0.499	
FIBERGLASS HFG-TEXTILE PRODUCTS	48.2	0.50	0.19	5.7	1.6	0.93	660.	0.475	
COFFEE ROASTING	4.8	0.52	0.31	2.9	0.52	0.43	90.0	0.446	
PETROLEUM REFINRY FCCU	234.	42.2	29.1	107.	38.1	34.4	3600.	0.412	
SUGAR CANE - BAGASSE BURNING	66.1.	9.7	4.9	28.9	11.2	8.6	2500.	0.405	
SECONDARY ZINC - DISTILLATION	10.5	0.42	0.27	4.7	0.62	0.49	120.	0.373	
CERAMIC CLAY	1384.	15.3	10.2	653.	21.7	17.5	4100.	0.362	
MUNICIPAL INCINERATION	262.	41.9	25.5	109.	36.8	33.2	3600.	0.322	
CEMENT PLANTS	18749.	9548.	7161.	10464.	7179.	7173.	5200.	0.297	
CARBON BLACK - FURNACE PROCESS	215.	2.4	1.3	92.6	3.0	2.5	500.	0.290	
MIXED FUEL BOILERS - COAL & REFUSE	2879.	0.23	0.23	16.6	39.3	28.9	10400.	0.268	
PRIMARY ZINC SHELTERS	1267.	2.1	1.3	575.	2.3	2.0	240.	0.258	
SECONDARY LEAD - REVERB	92.0	1.6	1.2	51.0	1.4	1.3	20.0	0.160	
SECONDARY LEAD - BLAST	18.7	0.22	0.17	10.4	0.20	0.20	6.1	0.160	
MINERAL WOOL	135.	14.8	10.4	79.1	17.7	16.6	1000.	0.150	

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS							TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985			
INTERNAL COMB ENGS DIESEL DUALFUEL		28.2	22.5	22.5	36.1	34.1	2000.	0.148	
CASTABLE REFRACTORY	36.1								
EXPLOSIVES - HIGH	59.9	0.82	0.55	26.3	1.3	1.2	90.0	0.132	
HYDROFLUORIC ACID	94.4	1.2	0.65	21.1	2.9	2.6	290.	0.129	
IRON AND STEEL - BLAST FURNACE	229.	7.7	4.2	84.7	11.5	11.5	0.0	0.070	
IRON & STEEL - BOF	10336.	80.1	57.7	5769.	103.	103.	0.0	0.000	
FIBERGLASS MFG.-WOOD PRODUCTS	3020.	8.3	6.0	1469.	10.6	10.6	0.0	0.000	
WOOD PULPING KRAFT	55.0	3.3	1.2	13.7	4.9	4.9	0.0	0.000	
WOOD PULPING SULFITE	3706.	93.5	64.5	2269.	105.	105.	0.0	0.000	
SLUDGE INCINERATION	31.8	3.5	2.4	19.5	4.0	4.0	0.0	0.000	
	122.	1.5	0.98	23.4	2.3	2.3	0.0	-0.000	

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PARTICULATES

SOURCE	EMISSION UNITS	EMISSION RATES			UNCNT E	GROWTH RATES			UNITS/YR	CAPACITY/PRODUCTION		
		ALLOWABLE E	S	N		P	B	C		A	B	C
K												
PAINT MANUFACTURING												
0.83 LB/TON	1.000	0.001	1.000	0.067S	0.026C	E6 TONS	4.9	3.3	1.5			
FIBERGLASS MFG--TEXTILE PRODUCTS												
0.70 LB/TON	2.780	1.460	84.000	0.063S	0.122C	E6 TONS	0.52	0.32	1.1			
FIBERGLASS MFG--WOL PRODUCTS												
0.70 LB/TON	8.640	8.640	96.000	0.063S	0.042C	E6 TONS	1.1	0.68	0.55			
WASTE BOILERS												
0.58 LB/TON	3.010	0.280	27.500	0.050S	0.012C	E6 TONS	163.	81.4	20.6			
LINE PROCESSING												
0.90 LB/TON	3.400	0.203	203.000	0.050S	0.050C	E6 TONS	26.1	13.1	16.4			
PLYWOOD - VENEER												
0.95 LB/TON	0.004	0.001	0.132	0.050S	0.025C	E6 TONS	22600.	11300.	6330.			
SAND AND GRAVEL PROCESSING												
0.80 LB/TON	0.100	0.005	0.100	0.050S	0.000S	E6 TONS	1142.	571.	0.0			
DIRECT FIRING OF MEATS												
0.62 LB/TON	2445.000	195.600	2445.000	0.050S	0.033S	E6 TONS	0.034	0.017	0.011			
PHOSPHATE ROCK - GRINDING												
0.94 LB/TON	0.940	0.002	2.000	0.050S	0.043S	E6 TONS	25.7	12.8	11.1			
COAL CLEANING - THERMAL DRYING												
EXIST. 0.59 LB/TON	0.410	0.099	19.800	0.050S	0.029S	E6 TONS	133.	66.5	38.6			
NEW 0.59 LB/TON	0.340											
PHOSPHATE ROCK - DRYING/HANDLING												
0.87 LB/TON	0.340	0.122	14.000	0.050S	0.041S	E6 TONS	43.9	21.9	18.0			
SUGAR CANE - BAGASSE BURNING												
0.75 LB/TON	3.700	2.200	22.000	0.050S	0.015S	E6 TONS	7.0	3.5	1.0			
ELR >250 E6 BTU/HR												
EXIST. 0.58 LB/E6 BTU	0.277	0.050	3.110	0.050S	0.055C	E12 BTU	28011.	14006.	19836.			
NEW 0.58 LB/E6 BTU	0.100											
ELR 10-250 E6 BTU/HR												
EXIST. 0.32 LB/E6 BTU	0.383	0.127	2.020	0.050S	0.014C	E12 BTU	19534.	9767.	2914.			
NEW 0.32 LB/E6 BTU	0.334											
PHOSPHATE ROCK - CALCINING												
0.90 LB/TON	0.960	0.400	40.000	0.050S	0.048S	E6 TONS	2.5	1.3	1.2			
STONE QUARRYING AND PROCESSING												
0.80 LB/TON	0.379	0.155	15.500	0.050S	0.033S	E6 TONS	1225.	613.	404.			
PINING/MILLING LEAD ORE												
0.92 LB/TON	4.170	2.090	4.170	0.050S	0.000	E6 TONS	0.62	0.31	0.0			
CHARCOAL												
0.85 LB/TON	19.500	3.500	352.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42			
FERTILIZER - NITRATES												
0.77 LB/TON	1.640	0.254	12.720	0.045S	0.070C	E6 TONS	10.5	4.7	10.2			
FERTILIZER - DAP												
0.89 LB/TON	3.530	1.640	82.000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7			

PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES			CAPACITY/PRODUCTION		
			ALLOWABLE E S	E N	UNCONT E U	DECIMAL/YR P B	P C	UNITS/YR	A 1975	B 1985	C 1985
CARBON BLACK - FURNACE PROCESS	0.77	LB/TON	3.100	2.200	220.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56
FERTILIZER GISP STORAGE	0.76	LB/TON	1.110	0.022	2.170	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
EXPLOSIVES - HIGH	0.83	LB/TON	1.550	1.350	50.400	0.045S	0.094C	E6 TONS	1.8	0.83	2.7
SOAP	0.90	LB/TON	0.724	0.026	13.000	0.045S	0.000S	E6 TONS	0.55	0.25	0.0
FERTILIZER - AMMONIUM SULFATE	0.84	LB/TON	2.040	1.000	20.000	0.045S	0.116C	E6 TONS	9.3	4.2	18.5
SYNTHETIC RESINS - POLYESTER	0.68	LB/TON	4.100	0.350	7.000	0.045S	0.170C	E6 TONS	1.0	0.46	3.9
SYNTHETIC FIBER - DACRON	0.68	LB/TON	1.580	0.350	7.000	0.045S	0.164C	E6 TONS	2.3	1.0	8.2
SYNTHETIC FIBER - NYLON	0.72	LB/TON	1.530	0.750	15.000	0.045S	0.127C	E6 TONS	1.7	0.77	4.0
PHOSPHORIC ACID - THERMAL PROCESS	0.81	LB/TON	2.270	0.134	134.000	0.045S	0.014C	E6 TONS	1.4	0.63	0.21
STARCH	0.83	LB/TON	2.000	0.020	8.000	0.045S	0.018C	E6 TONS	4.3	1.9	0.83
HYDROFLUORIC ACID	0.98	LB/TON	35.000	35.000	700.000	0.045S	0.049S	E6 TONS	0.45	0.20	0.22
SODIUM CARBONATE - NATURAL	0.87	LB/TON	1.160	0.450	90.000	0.045S	0.130C	E6 TONS	5.8	2.6	13.8
ASPHALT BLOWING	0.90	LB/TON	1.180	0.042	4.200	0.042S	0.025S	E6 TONS	3.1	1.3	0.79
COTTON GINNING	1.00	LB/BALE	2.090	0.490	12.000	0.042S	0.013S	E6 BALE	10.8	4.5	1.4
ASPHALT SATURATOR	0.90	LB/TON	1.330	0.073	7.300	0.042S	0.025S	E6 TONS	6.3	2.6	1.6
LEAD ACID BATTERY	0.76	LB/PRD UNT	0.032	0.000	0.130	0.040S	0.050C	E6 PU	80.0	32.0	50.3
SMOKED MEAT	0.81	LB/TON	0.300	0.100	0.300	0.040S	0.017S	E6 TONS	3.6	1.4	0.61
ANIMAL FEED DEFLUORINATION	0.90	LB/TON	4.570	0.063	625.000	0.040S	0.000S	E6 TONS	0.20	0.080	0.0
COFFEE ROASTING	0.85	LB/TON	0.794	0.440	7.300	0.040S	0.000S	E6 TONS	1.5	0.62	0.0
BEER PROCESSING	0.81	LB/TON	2.090	0.270	5.450	0.040S	0.070C	E6 TONS	7.2	2.9	7.0
MUNICIPAL INCINERATION	0.56	LB/TON	4.600	0.990	19.700	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
EXIST- NEW	0.56		1.460								

PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES			INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E S	UNCONT E N	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
SECONDARY ZINC - SWEATING	0.82	LB/TON	3.860	0.872	0.035S	0.039C	E6 TONS	0.20	0.070	0.093
CASTABLE REFRACTORY	0.80	LB/TON	5.320	4.620	0.033S	0.043C	E6 TONS	0.39	0.13	0.20
CONCRETE BATCHING	1.00	LB/TON	0.098	0.010	0.033S	0.030C	E6 TONS	327.	108.	112.
GLASS - SODALINE	0.80	LB/TON	1.890	0.020	0.033S	0.028S	E6 TONS	34.4	11.4	9.6
GLASS - OPAL	0.80	LB/TON	2.240	0.022	0.033S	0.028S	E6 TONS	0.46	0.15	0.13
BRICK & RELATED CLAY PRODUCTS	0.90	LB/TON	2.770	1.320	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
FLY ASH SINTERING	0.86	LB/TON	0.400	0.110	0.033S	0.055C	E6 TONS	7.7	2.5	5.4
SLUDGE INCINERATION EXIST. NEW	0.50 0.50	LB/TON	5.000 1.600	1.600	0.033S	0.250S	E6 TONS	1.2	0.39	2.9
FRIT MANUFACTURING	0.80	LB/TON	5.800	1.780	0.033S	0.037S	E6 TONS	0.54	0.28	0.31
ORCHARD HEATERS	1.00	LB/TON	0.007	0.000	0.033S	0.028S	E6 TONS	60.0	19.8	16.8
CERAMIC CLAY	0.80	LB/TON	2.750	1.755	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
CLAY SINTERING	0.80	LB/TON	2.410	0.026	0.033S	0.027S	E6 TONS	0.74	0.24	0.20
WHISKEY	0.95	LB/PRD UNIT	27.900	2.180	0.032S	0.060S	E6 PU	1.3	0.42	0.78
PULPBORD	0.98	LB/TON	0.096	0.014	0.031S	0.015C	E6 TONS	37.2	11.5	6.0
PET REF - PROC GAS COMB EXIST. NEW	0.85 0.85	LB/'6 BTU	20.000	3.000	0.031S	0.042C	E12 BTU	0.23	0.070	0.12
PETROLEUM REFINRY FCCU	0.85	LB/TON	0.066	0.010	0.031S	0.042C	E6 TONS	150.	467.	766.
WOOD PULPING KRAFT	0.98	LB/TON	5.630	5.630	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
WOOD PULPING SULFITE	0.98	LB/TON	3.000	3.000	0.031S	0.012C	E6 TONS	2.4	0.74	0.30
MINERAL WOOL	0.82	LB/TON	4.270	3.630	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
PERLITE	0.82	LB/TON	4.350	0.840	0.029S	0.036S	E6 TONS	0.65	0.19	0.23

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES			CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	EMISSION E N	UNCONT E U	DECIMAL/YR P B	P C	A 1975	B 1985	
GYPSUM		LB/TON	1-510	0.302	131.700	0.029S	0.006S	15.9	4.7	0.91
FEED MILLING - OTHER	0.80	LB/TON	2.060	0.100	20.000	0.029S	0.035C	21.4	6.2	8.8
FEED MILLING - ALFALFA DEHYDR.	0.50	LB/TON	2.060	0.250	50.000	0.029S	0.035C	4.1	1.2	1.7
FERRALLLOY - SURMERGED ARC FURNACE	0.90	LB/TON	22.800	4.560	456.000	0.028S	0.015C	1.6	0.44	0.25
CAST IRON FOUNDRY - ELEC. FURN.	0.93	LB/TON	4.500	0.045	4.500	0.028S	0.136S	8.1	2.3	11.0
COKE OVENS - BY PRODUCT	0.93	LB/TON	4.900	0.430	4.900	0.028S	0.010S	75.5	21.1	7.5
VEGETABLE OIL PRODUCTION	0.92	LB/TON	8.630	0.630	63.000	0.028S	0.027S	6.5	1.8	1.8
IRON AND STEEL - BLAST FURNACE	0.90	LB/TON	1.500	1.500	150.000	0.028S	0.029S	119.	33.2	34.4
IRON & STEEL - BOF	0.90	LB/TON	0.208	0.150	51.000	0.028S	0.048S	88.9	24.9	42.7
IRON & STEEL - EAF	0.90	LB/TON	0.150	0.480	28.300	0.028S	0.073S	36.7	10.3	26.8
IRON AND STEEL - SCARFING	0.90	LB/TON	0.138	0.030	3.000	0.028S	0.029S	87.3	24.4	25.3
STEEL FOUNDRIES	0.90	LB/TON	2.200	0.104	10.400	0.028S	0.073S	29.3	8.2	21.4
IRON AND STEEL - SINTERING	0.90	LB/TON	0.500	0.150	42.000	0.028S	0.029S	69.6	19.5	20.2
DEEP FAT FRYING	0.81	LB/TON	7.130	0.119	11.900	0.028S	0.043C	2.6	0.74	1.4
CEMENT PLANTS	0.90	LB/TON	206.000	0.450	301.000	0.025S	0.030C	103.	25.8	35.4
EXIST. NEW	0.90	LB/TON	0.640							
SECONDARY LEAD - BLAST	0.68	LB/TON	4.350	1.050	271.000	0.024S	0.032C	0.15	0.036	0.055
EXIST. NEW	0.68	LB/TON	1.250							
SECONDARY LEAD - REVERB	0.68	LB/TON	6.440	1.050	277.000	0.024S	0.032C	0.71	0.17	0.26
EXIST. NEW	0.68	LB/TON	1.250							
SECONDARY LEAD - PBT FURNACE	0.68	LB/TON	1.360	0.041	1.360	0.024S	0.032C	0.065	0.016	0.024
EXIST. NEW	0.68	LB/TON	1.180	0.000	1.180	0.020S	0.145S	4.4	0.88	6.4
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	1.180	0.000	1.180	0.020S	0.145S	4.4	0.88	6.4

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCERT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N		P	B	C	A 1975	B 1985	C 1985
BOILERS < 3 MM BTU/HR	0.30	LB/E6 BTU	0.039	0.000	0.039	0.020S	0.020S	0.029C	24572.	4914.	8131.
INTERNAL COMB ENGS DIESEL	0.58	LB/TON	5.410	4.610	5.410	0.020S	0.020S	0.028S	18.0	3.6	5.0
GAS TURBINE ENGINES	0.22	LB/TON	3.740	0.000	3.740	0.020S	0.020S	0.270S	54.1	10.8	146.
ASPHALT BATCHING	0.47	LB/TON	0.376	0.045	15.000	0.008S	0.008S	0.050S	1480.	118.	740.
EXIST. NEW	0.47		0.169								
FISH MEAL PROCESSING	0.81	LB/TON	0.400	0.040	0.400	0.008S	0.008S	0.000C	0.36	0.029	0.0
POLYPROPYLENE	0.78	LB/TON	2.670	0.030	3.000	0.003S	0.003S	0.150C	1.6	0.048	4.9
STYRENE - BUTADIENE RUBBER	0.75	LB/TON	0.700	0.120	0.700	0.003S	0.003S	0.020C	2.3	0.070	0.51
POLYVINYL CHLORIDE	0.82	LB/TON	3.180	0.350	35.000	0.000S	0.000S	0.078C	2.7	0.0055	3.1
MIXED FUEL BOILERS - COAL & REFUSE	0.58	LB/TON	5.000	3.660	366.000	0.000S	0.000S	17.290S	0.16	0.0	27.0
MIXED FUEL BOILERS - OIL & REFUSE	0.58	LB/TON	5.000	1.020	101.500	0.000S	0.000S	17.290S	0.036	0.0	6.2
DETERGENT	0.90	LB/TON	1.500	0.450	90.000	0.000S	0.000S	0.035C	2.5	0.0	1.0

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS									
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR			T S 1985	T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
PAINT MANUFACTURING	2.7	2.0	0.68	0.68	0.68	2.7	0.68	0.68	1900.	0.999
FIBERGLASS MFG.-TEXTILE PRODUCTS	48.2	0.50	0.19	5.7	5.7	1.6	0.93	0.93	660.	0.475
FIBERGLASS MFG.-WOOL PRODUCTS	55.0	3.3	1.2	13.7	13.7	4.9	4.9	4.9	0.0	0.000
WOOD WASTE BOILERS	1464.	142.	71.1	650.	650.	160.	79.4	79.4	80800.	0.907
LIME PROCESSING	3891.	40.0	20.0	1194.	1194.	65.2	22.7	22.7	42400.	0.940
PLYWOOD VENEER	1814.	42.9	21.5	709.	709.	55.0	32.4	32.4	22600.	0.675
SAND AND GRAVEL PROCESSING	45.7	45.7	22.8	22.8	22.8	45.7	24.0	24.0	21600.	0.950
DIRECT FIRING OF HEATS	34.0	25.5	12.8	12.8	12.8	34.0	14.5	14.5	19500.	0.920
PHOSPHATE ROCK - GRINDING	34.5	11.4	5.7	12.1	12.1	16.2	5.7	5.7	10500.	0.998
COAL CLEANING - THERMAL DRYING	1002.	16.1	8.0	388.	388.	18.6	11.1	11.1	7400.	0.709
PHOSPHATE ROCK - DRYING/HANDLING	377.	6.5	3.2	134.	134.	9.2	5.4	5.4	3700.	0.641
SUGAR CANE - BAGASSE BURNING	66.4	9.7	4.9	28.9	28.9	11.2	8.6	8.6	2500.	0.405
BLR >250 E6 BTU/HR	43153.	2250.	1125.	12432.	12432.	2106.	1616.	1616.	490000.	0.500
BLR 10-250 E6 BTU/HR	7255.	1197.	599.	3157.	3157.	1276.	856.	856.	419000.	0.620
PHOSPHATE ROCK - CALCINING	67.5	1.1	0.55	22.9	22.9	1.6	1.0	1.0	620.	0.583
STONE QUARRYING AND PROCESSING	10101.	186.	92.9	3798.	3798.	247.	156.	156.	91100.	0.591
MINING/MILLING LEAD ORE	1.2	1.2	0.60	0.60	0.60	1.2	0.90	0.90	290.	0.499
CHARCOAL	181.	6.6	3.6	65.4	65.4	10.0	4.8	4.8	5200.	0.821
FERTILIZER - NITRATES	101.	6.6	3.6	28.3	28.3	13.1	5.1	5.1	7900.	0.845
FERTILIZER - DAP	176.	4.9	2.7	63.0	63.0	7.6	5.0	5.0	2600.	0.535

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS 1000 TONS/YEAR				T N 1985	TONS/YEAR T S N 1985	1 - E / E N S
			T E 1985	T UE 1985	T S 1985	T N 1985			
CARBON BLACK - FURNACE PROCESS 215.		2.4	1.3	92.6	3.0	2.5	500.	0.290	
FERTILIZER GTSP STORAGE 1.5		0.50	0.27	0.54	0.75	0.28	460.	0.870	
EXPLOSIVES - HIGH 94.4		1.2	0.65	21.1	2.9	2.6	290.	0.129	
SOAP 3.2		0.18	0.099	1.8	0.18	0.10	70.0	0.964	
FERTILIZER - AMMONIUM SULFATE 233.		7.9	4.4	42.8	23.8	13.9	9900.	0.510	
SYNTHETIC RESINS - POLYESTER 11.7		1.4	0.78	1.3	6.8	1.3	5500.	0.915	
SYNTHETIC FIBER - DACRON 24.9		1.2	0.68	3.0	5.6	1.8	3800.	0.778	
SYNTHETIC FIBER - NYLON 30.6		0.94	0.52	5.1	3.1	1.8	1300.	0.510	
PHOSPHORIC ACID - THERMAL PROCESS 86.7		1.3	0.70	41.5	1.5	0.75	720.	0.941	
STARCH 16.9		3.5	1.9	7.8	4.2	2.0	2200.	0.990	
HYDROFLUORIC ACID 223.		7.7	4.2	84.7	11.5	11.5	0.0	0.000	
SODIUM CARBONATE - NATURAL 764.		2.9	1.6	124.	9.8	4.8	5000.	0.612	
ASPHALT BLOWING 7.4		1.7	0.97	3.5	2.1	1.0	1000.	0.964	
COTTON GINNING 73.2		11.3	6.5	37.6	12.8	8.0	4700.	0.770	
ASPHALT SATURATOR 25.8		3.8	2.2	12.0	4.7	2.3	2300.	0.945	
LEAD ACID BATTERY 6.4		0.97	0.58	2.4	1.6	0.59	990.	0.996	
SMOKED MEAT 0.51		0.44	0.26	0.26	0.51	0.35	160.	0.667	
ANIMAL FEED DEFLUBRINATION 56.2		0.41	0.25	33.8	0.41	0.25	160.	0.986	
COFFEE ROASTING 4.8		0.52	0.31	2.9	0.52	0.43	90.0	0.446	
BEER PROCESSING 31.3		6.1	3.7	9.5	12.0	4.7	7200.	0.871	

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS							TONS/YEAR T - T S N 1985	I - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985			
MUNICIPAL INCINERATION									
262. PATHOLOGICAL INCINERATION		41.9	25.5	109.	36.8	33.2	3600.	0.322	
0.37 AUTOBODY INCINERATION		0.10	0.062	0.17	0.12	0.091	20.0	0.500	
1.0 INDUSTRIAL/COMMERCIAL INCINERATION		0.26	0.16	0.16	0.99	0.39	600.	0.726	
114. GRAIN HANDLING - TRANSFER		40.1	24.4	24.4	114.	25.3	88400.	0.990	
2280. GRAIN HANDLING - DRYING		191.	120.	1238.	221.	130.	90600.	0.897	
137. GRAIN HANDLING - PROCESSING		15.1	9.5	74.2	17.5	10.2	7300.	0.922	
684. BOILERS .3-10 MM BTU/HR		242.	134.	371.	246.	135.	111000.	0.986	
1260. GRAIN HANDLING - SCREENING		827.	521.	521.	1260.	663.	597000.	0.808	
684. PRIMARY ZINC SHELTERS		158.	99.6	371.	184.	103.	80700.	0.963	
1267. SEC ALUMINUM - REVERB FURNACE		2.1	1.3	575.	2.3	2.0	240.	0.258	
167. SEC ALUMINUM - SWEAT FURNACE		2.8	1.8	73.1	4.1	2.3	1800.	0.800	
5.0 PRIMARY COPPER		0.76	0.49	2.2	1.1	0.65	450.	0.731	
557. PRIMARY LEAD SHELTERS		38.8	24.8	265.	52.2	25.7	26400.	0.968	
272. BRASS & BRONZE SHELTING		1.2	0.64	164.	1.1	0.80	250.	0.611	
10.5 PRIMARY ALUMINUM SHELTERS		0.49	0.31	6.7	0.38	0.33	40.0	0.767	
523. SECONDARY COPPER - SHELTING		16.1	10.4	165.	33.1	17.5	15600.	0.691	
92.2 SEC MAGNESIUM		2.6	1.7	41.5	3.8	1.9	1800.	0.903	
0.056 SECONDARY ZINC - DISTILLATION		0.049	0.032	0.032	0.056	0.034	20.0	0.900	
10.5 SECONDARY COPPER - HANDLING		0.42	0.27	4.7	0.62	0.49	120.	0.373	
91.2		2.0	1.3	41.1	2.9	1.5	1300.	0.872	

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				T N 1985	TONS/YEAR T - T S N 1985	I - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985			
SECONDARY ZINC - SWEATING 2.8		0.32	0.21	1.3	0.46	0.26	190.	0.774	
CASTABLE REFRACTORY 59.9		0.82	0.55	26.3	1.3	1.2	90.0	0.132	
CONCRETE BATCHING 21.9		16.0	10.7	10.9	21.5	11.8	9600.	0.898	
GLASS - SODALIME 35.3		26.0	17.4	18.5	33.3	17.6	15700.	0.989	
GLASS - OPAL 0.52		0.41	0.27	0.27	0.52	0.28	240.	0.990	
BRICK & RELATED CLAY PRODUCTS 2367.		39.6	26.5	124.9	50.2	37.8	12400.	0.523	
FLY ASH SINTERING 621.		1.3	0.89	24.3	2.3	1.3	990.	0.725	
SLUDGE INCINERATION 122.		1.5	0.98	23.4	2.3	2.3	0.0	-0.000	
FRIT MANUFACTURING 8.2		1.9	1.3	4.0	2.7	1.7	940.	0.693	
* ORCHARD HEATERS 0.27		0.21	0.14	0.14	0.27	0.14	120.	1.000	
CERAMIC CLAY 1384.		15.3	10.2	65.3	21.7	17.5	4100.	0.362	
CLAY SINTERING 9.8		0.71	0.48	5.2	0.91	0.48	420.	0.989	
WHISKEY 43.2		17.3	11.8	18.4	27.6	13.0	14600.	0.922	
PULPBBOARD 2.0		1.7	1.2	1.2	2.0	1.3	700.	0.854	
PET REF - PROC GAS COMB 2.9		1.9	1.3	1.3	2.9	1.6	1300.	0.850	
PETROLEUM REFINRY FCCU 234.		42.2	29.1	107.	38.1	34.4	3600.	0.412	
WOOD PULPING KRAFT 3706.		93.5	64.5	226.9	105.	105.	0.0	0.000	
WOOD PULPING SULFITE 31.8		3.5	2.4	19.5	4.0	4.0	0.0	0.000	
MINERAL WOOL 135.		14.8	10.4	79.1	17.7	16.6	1000.	0.150	
PERLITE 7.6		1.2	0.81	3.9	1.6	0.96	600.	0.807	

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985		
GYPSUM							
FEED MILLING - OTHER	885.	9.6	6.8	592.	10.2	7.5	0.800
FEED MILLING - ALFALFA DEHYDR.	151.	11.0	7.8	75.9	15.5	8.2	0.951
FERRALLOY - SUBMERGED ARC FURNACE	71.9	2.1	1.5	36.2	3.0	1.7	0.879
CAST IRON FOUNDRY - ELEC. FURN.	372.	16.0	11.5	230.	18.6	12.9	0.800
CAST IRON FOUNDRY - ELEC. FURN.	40.0	16.9	12.2	12.2	40.0	12.5	0.990
COKE OVENS - BY PRODUCT	189.	172.	124.	124.	189.	130.	0.912
VEGETABLE OIL PRODUCTION	240.	25.9	18.6	136.	32.9	19.7	0.927
IRON AND STEEL - BLAST FURNACE	10336.	80.1	57.7	5769.	103.	103.	0.000
IRON & STEEL - BOF	3020.	8.3	6.0	1469.	10.6	10.6	0.000
IRON & STEEL - EAF	809.	74.2	53.4	337.	70.1	61.4	0.520
IRON AND STEEL - SCARFING	152.	5.4	3.9	84.9	7.0	4.6	0.783
STEEL FOUNDRIES	237.	29.0	20.9	98.7	50.2	22.3	0.953
IRON AND STEEL - SINTERING	1697.	15.7	11.3	947.	20.2	14.0	0.700
DEEP FAT FRYING	19.4	7.6	5.5	9.2	11.6	5.6	0.983
CEMENT PLANTS	18749.	9548.	7161.	10464.	7179.	7173.	0.297
SECONDARY LEAD - BLAST	18.7	0.22	0.17	10.4	0.20	0.20	0.160
SECONDARY LEAD - REVERB	92.0	1.6	1.2	51.0	1.4	1.3	0.160
SECONDARY LEAD - PBT FURNACE	0.041	0.030	0.023	0.023	0.041	0.023	0.970
* GAS TURBINE ENGINES GAS PIPELINE	5.4	2.2	1.8	1.8	5.4	1.8	1.000
* BOILERS < 3 MM BTU/HR	191.	144.	115.	115.	191.	115.	1.000

PARTICULATES

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985		
INTERNAL COMB ENGS DIESEL DUALFUEL		28.2					
	36.1		22.5	22.5	36.1	2000.	0.148
* GAS TURBINE ENGINES ELECTRIC UTILITIES		22.3					
	82.3		17.8	17.8	82.3	64500.	1.000
ASPHALT BATCHING	7826.	131.	120.	4800.	154.	25000.	0.734
FISH MEAL PROCESSING	0.058	0.058	0.054	0.054	0.058	4.2	0.900
POLYPROPYLENE	7.6	1.7	1.6	1.8	6.7	5000.	0.989
STYRENE - BUTADIENE RUBBER	0.75	0.62	0.60	0.60	0.75	120.	0.829
POLYVINYL CHLORIDE	83.3	3.6	3.6	39.2	7.6	3500.	0.890
MIXED FUEL BOILERS - COAL & REFUSE	2879.	0.23	0.23	16.6	39.3	10400.	0.268
MIXED FUEL BOILERS - OIL & REFUSE	184.	0.052	0.052	1.1	9.1	7100.	0.796
DETERGENT	143.	1.7	1.7	101.	2.4	480.	0.700

P_C (Compound)

PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR		UNITS/YR	INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E	EMISSION N		P	B		A	B	C
					U				1975	1985	1985
SYNTHETIC RESINS - POLYESTER		LB/TON	4.100	0.350	7.000	0.045S	0.170C	E6 TONS	1.0	0.46	3.9
0.68		LB/TON									
SYNTHETIC FIBER - DACRON		LB/TON	1.580	0.350	7.000	0.045S	0.164C	E6 TONS	2.3	1.0	8.2
0.68		LB/TON									
POLYPROPYLENE		LB/TON	2.670	0.030	3.000	0.003S	0.150C	E6 TONS	1.6	0.048	4.9
0.78		LB/TON									
SODIUM CARBONATE - NATURAL		LB/TON	1.160	0.450	90.000	0.045S	0.130C	E6 TONS	5.8	2.6	13.8
0.87		LB/TON									
SYNTHETIC FIBER - NYLON		LB/TON	1.530	0.750	15.000	0.045S	0.127C	E6 TONS	1.7	0.77	4.0
0.72		LB/TON									
FIBERGLASS MFG.-TEXTILE PRODUCTS		LB/TON	2.780	1.460	84.000	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
0.70		LB/TON									
FERTILIZER - AMMONIUM SULFATE		LB/TON	2.040	1.000	20.000	0.045S	0.116C	E6 TONS	9.3	4.2	18.5
0.84		LB/TON									
INDUSTRIAL/COMMERCIAL INCINERATION		LB/TON	6.470	0.065	6.470	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
0.38		LB/TON									
EXPLOSIVES - HIGH		LB/TON	1.550	1.350	50.400	0.045S	0.094C	E6 TONS	1.8	0.83	2.7
0.83		LB/TON									
POLYVINYL CHLORIDE		LB/TON	3.180	0.350	35.000	0.000S	0.078C	E6 TONS	2.7	0.0055	3.1
0.82		LB/TON									
PRIMARY ALUMINUM SHELTERS		LB/TON	5.820	1.800	92.000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4
0.92		LB/TON									
FERTILIZER - NITRATES		LB/TON	1.640	0.254	12.720	0.045S	0.070C	E6 TONS	10.5	4.7	10.2
0.77		LB/TON									
BEER PROCESSING		LB/TON	2.090	0.270	5.450	0.040S	0.070C	E6 TONS	7.2	2.9	7.0
0.81		LB/TON									
BLR >250 E6 BTU/HR		LB/E6 BTU	0.277	0.050	3.110	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
EXIST.			9.100								
NEW.											
FLY ASH SINTERING		LB/TON	0.400	0.110	110.000	0.033S	0.055C	E6 TONS	7.7	2.5	5.4
0.86		LB/TON									
LINE PROCESSING		LB/TON	3.400	0.203	203.000	0.050S	0.050C	E6 TONS	26.1	13.1	16.4
0.90		LB/TON									
LEAD ACID BATTERY		LB/PRD UNT	0.032	0.000	0.130	0.040S	0.050C	E6 PU	80.0	32.0	50.3
0.76		LB/PRD UNT									
DEEP FAT FRYING		LB/TON	7.130	0.119	11.900	0.028S	0.043C	E6 TONS	2.6	0.74	1.4
0.81		LB/TON									
CASTABLE REFRACTORY		LB/TON	5.320	4.620	254.000	0.033S	0.043C	E6 TONS	0.39	0.13	0.20
0.80		LB/TON									
CHARCOAL		LB/TON	19.500	3.500	352.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42
0.85		LB/TON									
BOILERS 3-10 MM BTU/HR		LB/E6 BTU	0.250	0.048	0.250	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
0.25		LB/E6 BTU									

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			ALLOWABLE E	EMISSION N	UNCONT F	P	B	C	A 1975	B 1985	C 1985
FET REF - PROC GAS COMB	0.85	LB/E6 BTU	20.000	3.000	20.000	0.031S	0.042C	0.042C	0.23	0.070	0.12
FERTILIZER GTSP STORAGE	0.76	LB/TON	1.110	0.022	2.170	0.045S	0.042C	0.042C	1.2	0.53	0.60
PETROLEUM REFINRY FCCU	0.85	LB/TON	0.066	0.010	0.242	0.031S	0.042C	0.042C	1506.	467.	766.
EXIST. NEW.	0.85		0.017								
FIBERGLASS MFG.-WOOL PRODUCTS	0.70	LB/TON	8.640	8.640	96.000	0.063S	0.042C	0.042C	1.1	0.68	0.55
SECONDARY ZINC - DISTILLATION	0.82	LB/TON	2.710	1.700	46.000	0.035S	0.039C	0.039C	0.38	0.13	0.18
SECONDARY ZINC - SWEATING	0.82	LB/TON	3.860	0.872	23.600	0.035S	0.039C	0.039C	0.20	0.070	0.093
SECONDARY COPPER - SWEATING	0.82	LB/TON	3.470	0.338	84.600	0.035S	0.037C	0.037C	1.8	0.64	0.82
SECONDARY COPPER - HANDLING	0.82	LB/TON	6.640	0.848	212.000	0.035S	0.037C	0.037C	0.73	0.25	0.32
PRIMARY ZINC SMELTERS	0.83	LB/TON	3.960	1.670	1665.000	0.036S	0.035C	0.035C	1.3	0.47	0.53
EXIST. NEW. DETERGENT	0.83		2.250								
FEED MILLING - OTHER	0.90	LB/TON	1.500	0.450	90.000	0.000S	0.035C	0.035C	2.5	0.0	1.0
FEED MILLING - ALFALFA DEHYDR.	0.50	LB/TON	2.060	0.100	20.000	0.029S	0.035C	0.035C	21.4	6.2	8.8
SECONDARY LEAD - BLAST	0.50	LB/TON	2.060	0.250	50.000	0.029S	0.035C	0.035C	4.1	1.2	1.7
EXIST. NEW.	0.68		4.350								
SECONDARY LEAD - PBT FURNACE	0.68	LB/TON	1.250	1.050	271.000	0.024S	0.032C	0.032C	0.15	0.036	0.055
SECONDARY LEAD - REVERB	0.68	LB/TON	1.360	0.041	1.360	0.024S	0.032C	0.032C	0.065	0.016	0.024
EXIST. NEW.	0.68		6.440								
CEMENT PLANTS	0.90	LB/TON	206.000	0.450	301.000	0.025S	0.030C	0.030C	0.71	0.17	0.26
EXIST. NEW.	0.90		0.640								
CONCRETE BATCHING	1.00	LB/TON	0.098	0.010	0.100	0.033S	0.030C	0.030C	103.	25.8	35.4
PRIMARY COPPER	0.85	LB/TON	37.900	1.220	405.000	0.036S	0.030C	0.030C	327.	108.	112.
BOILERS < 3 MM BTU/HR	0.30	LB/E6 BTU	0.039	0.000	0.039	0.020S	0.029C	0.029C	2.4	0.87	0.83
									24572.	4914.	8131.

PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES			CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	E N	UNCONT E U	P B	C	A 1975	B 1985	
PAINT MANUFACTURING	0.83	LB/TON	1.000	0.001	1.000	0.067S	0.026C	4.9	3.3	1.5
PATHOLOGICAL INCINERATION										
EXIST- NEW	0.34 0.34	LB/TON	4.600 3.800	1.900	12.800	0.039S	0.026C	0.13	0.051	0.038
CARBON BLACK - FURNACE PROCESS										
0.77		LB/TON	3.100	2.200	220.000	0.045S	0.025C	2.0	0.89	0.56
FLYASH - VENEER										
0.95		LB/TON	0.004	0.001	0.132	0.050S	0.025C	22600.	11300.	6330.
STYRENE - BUTADIENE RUBBER										
0.75		LB/TON	0.700	0.120	0.700	0.003S	0.020C	2.3	0.070	0.51
STARCH										
0.83		LB/TON	2.000	0.020	8.000	0.045S	0.018C	4.3	1.9	0.83
GRAIN HANDLING - SCREENING										
0.82		LB/TON	1.610	0.060	6.000	0.037S	0.015C	240.	88.7	38.5
GRAIN HANDLING - TRANSFER										
0.82		LB/TON	1.940	0.200	20.000	0.037S	0.015C	240.	88.7	38.5
GRAIN HANDLING - PROCESSING										
0.82		LB/TON	2.160	0.030	6.000	0.037S	0.015C	240.	88.7	38.5
FERRALLIY - SUBMERGED ARC FURNACE										
0.90		LB/TON	22.800	4.560	456.000	0.028S	0.015C	1.6	0.44	0.25
GRAIN HANDLING - DRYING										
0.82		LB/TON	0.770	0.060	6.000	0.037S	0.015C	47.9	17.7	7.7
PULPBOARD										
0.98		LB/TON	0.096	0.014	0.096	0.031S	0.015C	37.2	11.5	6.0
BLR 10-250 E6 BTU/HR										
EXIST- NEW	0.32 0.32	LB/E6 BTU	0.383 0.334	0.127	2.020	0.050S	0.014C	19534.	9767.	2914.
PHOSPHORIC ACID - THERMAL PROCESS										
0.81		LB/TON	2.270	0.134	134.000	0.045S	0.014C	1.4	0.63	0.21
WASTE BOILERS										
0.58		LB/TON	3.010	0.280	27.500	0.050S	0.012C	163.	81.4	20.6
WASTE PULPING KRAFT										
0.98		LB/TON	5.630	5.630	198.000	0.031S	0.012C	33.9	10.5	4.3
WASTE PULPING SULFITE										
0.98		LB/TON	3.000	3.000	24.000	0.031S	0.012C	2.4	0.74	0.30
PINING/MILLING LEAD BRE										
0.92		LB/TON	4.170	2.090	4.170	0.050S	0.000	0.62	0.31	0.0
PRIMARY LEAD SHELTERS										
EXIST- NEW	0.99 0.85	LB/TON	3.060 3.060	1.190	790.000	0.036S	0.000	0.76	0.28	0.0
FISH MEAL PROCESSING										
0.81		LB/TON	0.400	0.040	0.400	0.008S	0.000C	0.36	0.029	0.0

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985				
SYNTHETIC RESINS - POLYESTER	11.7	1.4	0.78	1.3	6.8	1.3	5500.	0.915	
SYNTHETIC FIBER - DACRON	24.9	1.2	0.68	3.0	5.6	1.8	3800.	0.778	
POLYPROPYLENE	7.6	1.7	1.6	1.8	6.7	1.7	5000.	0.989	
SODIUM CARBONATE - NATURAL	764.	2.9	1.6	124.	9.8	4.8	5000.	0.612	
SYNTHETIC FIBER - NYLON	30.6	0.94	0.52	5.1	3.1	1.8	1300.	0.510	
FIBERGLASS MFG.-TEXTILE PRODUCTS	48.2	0.50	0.19	5.7	1.6	0.93	660.	0.475	
FERTILIZER - AMMONIUM SULFATE	233.	7.9	4.4	42.8	23.8	13.9	9900.	0.510	
INDUSTRIAL/COMMERCIAL INCINERATION	114.	40.1	24.4	24.4	114.	25.3	88400.	0.990	
EXPLOSIVES - HIGH	94.4	1.2	0.65	21.1	2.9	2.6	290.	0.129	
POLYVINYL CHLORIDE	83.3	3.6	3.6	39.2	7.6	4.0	3500.	0.890	
PRIMARY ALUMINUM SMELTERS	523.	16.1	10.4	165.	33.1	17.5	15600.	0.691	
FERTILIZER - NITRATES	101.	6.6	3.6	28.3	13.1	5.1	7900.	0.845	
BEER PROCESSING	31.3	6.1	3.7	9.5	12.0	4.7	7200.	0.871	
BLR >250 E6 BTU/HR	43153.	2250.	1125.	12632.	2106.	1616.	490000.	0.500	
FLY ASH SINTERING	621.	1.3	0.89	243.	2.3	1.3	990.	0.725	
LIME PROCESSING	3891.	40.0	20.0	1194.	65.2	22.7	42400.	0.940	
LEAD ACID BATTERY	6.4	0.97	0.58	2.4	1.6	0.59	990.	0.996	
DEEP FAT FRYING	19.4	7.6	5.5	9.2	11.6	5.6	6000.	0.983	
CASTABLE REFRACTORY	59.9	0.82	0.55	26.3	1.3	1.2	90.0	0.132	
CHARCOAL	181.	6.6	3.6	65.4	10.0	4.8	5200.	0.821	

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS				T N 1985	TONS/YEAR T-S-N 1985	1 - E / E N S
	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985			
BOILERS 3-10 MM BTU/HR 1260.	827.	521.	521.	1260.	663.	597000.	0.808
PET REF - PROC GAS COMB 2.9	1.9	1.3	1.3	2.9	1.6	1300.	0.850
FERTILIZER GTSP STORAGE 1.5	0.50	0.27	0.54	0.75	0.28	460.	0.980
PETROLEUM REFINRY FCCU 234.	42.2	29.1	107.	38.1	34.4	3600.	0.412
FIBERGLASS MFG.-WOOL PRODUCTS 55.0	3.3	1.2	13.7	4.9	4.9	0.0	0.000
SECONDARY ZINC - DISTILLATION 10.5	0.42	0.27	4.7	0.62	0.49	120.	0.373
SECONDARY ZINC - SWEATING 2.8	0.32	0.21	1.3	0.46	0.26	190.	0.774
SECONDARY COPPER - SMELTING 92.2	2.6	1.7	41.5	3.8	1.9	1800.	0.903
SECONDARY COPPER - HANDLING 91.2	2.0	1.3	41.1	2.9	1.5	1300.	0.872
PRIMARY ZINC SHELTERS 1267.	2.1	1.3	575.	2.3	2.0	240.	0.258
DETERGENT 143.	1.7	1.7	101.	2.4	1.9	480.	0.700
FEED MILLING - OTHER 151.	11.0	7.8	75.9	15.5	8.2	7300.	0.951
FEED MILLING - ALFALFA DEHYDR. 71.9	2.1	1.5	36.2	3.0	1.7	1200.	0.879
SECONDARY LEAD - BLAST 18.7	0.22	0.17	10.4	0.20	0.20	6.1	0.160
SECONDARY LEAD - PBT FURNACE 0.041	0.030	0.023	0.023	0.041	0.023	10.0	0.970
SECONDARY LEAD - REVERB 92.0	1.6	1.2	51.0	1.4	1.3	20.0	0.160
CEMENT PLANTS 18749.	9548.	7161.	10464.	7179.	7173.	5200.	0.297
CONCRETE BATCHING 21.9	16.0	10.7	10.9	21.5	11.8	9600.	0.898
PRIMARY COPPER 557.	38.8	24.8	265.	52.2	25.7	26400.	0.968
BOILERS <0.3 MM BTU/HR 191.	144.	115.	115.	191.	115.	76300.	1.000

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS						TONS/YEAR T-S-N 1985	I-E/N-S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
PAINT MANUFACTURING	2.7	2.0	0.68	0.68	2.7	0.68	1900.	0.999
PATHOLOGICAL INCINERATION	0.37	0.10	0.062	0.17	0.12	0.091	20.0	0.500
CARBON BLACK - FURNACE PROCESS	215.	2.4	1.3	92.6	3.0	2.5	500.	0.290
PLYWOOD - VENEER	181.	42.9	21.5	709.	55.0	32.4	22600.	0.675
STYRENE - BUTADIENE RUBBER	0.75	0.62	0.60	0.60	0.75	0.62	120.	0.829
STARCH	16.9	3.5	1.9	7.8	4.2	2.0	2200.	0.990
GRAIN HANDLING - SCREENING	68.	158.	99.6	371.	18.	103.	80700.	0.963
GRAIN HANDLING - TRANSFER	2280.	191.	120.	1238.	221.	130.	90600.	0.897
GRAIN HANDLING - PROCESSING	68.	212.	134.	371.	246.	135.	111000.	0.986
FERROALLOY - SUBMERGED ARC FURNACE	372.	16.0	11.5	230.	18.6	12.9	5600.	0.800
GRAIN HANDLING - DRYING	137.	15.1	9.5	74.2	17.5	10.2	7300.	0.922
PULPBARD	2.0	1.7	1.2	1.2	2.0	1.3	700.	0.854
BLR 10-250 E6 BTU/HR	7255.	1197.	599.	3157.	1276.	856.	419000.	0.620
PHOSPHORIC ACID - THERMAL PROCESS	86.7	1.3	0.70	41.5	1.5	0.75	720.	0.941
WOOD WASTE BOILERS	146.	1.2	71.1	650.	160.	79.4	80800.	0.907
WOOD PULPING KRAFT	3706.	93.5	64.5	2269.	105.	105.	0.0	0.000
WOOD PULPING SULFITE	31.8	3.5	2.4	19.5	4.0	4.0	0.0	0.000
MINING/MILLING LEAD ORE	1.2	1.2	0.60	0.60	1.2	0.90	290.	0.499
PRIMARY LEAD SHELTERS	272.	1.2	0.64	16.	1.1	0.80	250.	0.611
FISH MEAL PROCESSING	0.058	0.058	0.054	0.054	0.058	0.054	4.2	0.900

P_C (Simple)

PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E	N		P	B	C	A 1975	B 1985	
MIXED FUEL BOILERS - COAL & REFUSE	0.58	LB/TON	5.000	3.660	366.000	0.000S	17.290S	E6 TONS	0.16	0.0	27.0
MIXED FUEL BOILERS - OIL & REFUSE	0.58	LB/TON	5.000	1.020	101.500	0.000S	17.290S	E6 TONS	0.036	0.0	6.2
AUTOBODY INCINERATION	0.90	LB/PRD UNIT	1.970	0.540	2.000	0.039S	0.280S	E6 PU	0.29	0.11	0.82
GAS TURBINE ENGINES ELECTRIC UTILITIES	0.22	LB/TON	3.740	0.000	3.740	0.020S	0.270S	E6 TONS	54.1	10.8	146.
SLUDGE INCINERATION	0.50	LB/TON	5.000	1.600	119.000	0.033S	0.250S	E6 TONS	1.2	0.39	2.9
EXIST. NEW	0.50	LB/TON	1.600								
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	1.180	0.000	1.180	0.020S	0.145S	E6 TONS	4.4	0.88	6.4
CAST IRON FOUNDRY - ELEC. FURN.	0.93	LB/TON	4.500	0.045	4.500	0.028S	0.136S	E6 TONS	8.1	2.3	11.0
STEEL FOUNDRIES	0.90	LB/TON	2.200	0.104	10.400	0.028S	0.073S	E6 TONS	29.3	8.2	21.4
IRON & STEEL - EAF	0.90	LB/TON	4.490	0.480	28.300	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
EXIST. NEW	0.90	LB/TON	1.000								
WHISKEY	0.95	LB/PRD UNIT	27.900	2.180	43.600	0.032S	0.060S	E6 PU	1.3	0.42	0.78
FERTILIZER - DAP	0.89	LB/TON	3.530	1.640	82.000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
ASPHALT BATCHING	0.47	LB/TON	0.376	0.045	15.000	0.008S	0.050S	E6 TONS	1480.	118.	740.
EXIST. NEW	0.47	LB/TON	0.169								
HYDROFLUORIC ACID	0.98	LB/TON	35.000	35.000	700.000	0.045S	0.049S	E6 TONS	0.45	0.20	0.22
PHOSPHATE ROCK - CALCINING	0.90	LB/TON	0.960	0.400	40.000	0.050S	0.046S	E6 TONS	2.5	1.3	1.2
IRON & STEEL - BOF	0.90	LB/TON	0.208	0.150	51.000	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
EXIST. NEW	0.90	LB/TON	0.150								
SEC ALUMINUM - REVERB FURNACE	0.82	LB/TON	4.800	0.960	195.000	0.036S	0.047S	E6 TONS	1.4	0.51	0.67
SEC ALUMINUM - SWEAT FURNACE	0.68	LB/TON	7.360	1.980	33.000	0.036S	0.047S	E6 TONS	0.30	0.11	0.14
MUNICIPAL INCINERATION	0.56	LB/TON	4.600	0.990	19.700	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
EXIST. NEW	0.56	LB/TON	1.460								
PHOSPHATE ROCK - GRINDING	0.94	LB/TON	0.940	0.002	2.000	0.050S	0.043S	E6 TONS	25.7	12.8	11.1

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE		UNCONT E U	GROWTH RATES DECIMAL/YR		C	CAPACITY/PRODUCTION		C
			E S	E N		P B	P C		UNITS/YR	A 1975	
CERAMIC CLAY	0.80	LB/TON	2.750	1.755	175.500	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
PHOSPHATE ROCK - DRYING/HANDLING	0.87	LB/TON	0.340	0.122	14.000	0.050S	0.041S	E6 TONS	43.9	21.9	18.0
FRIT MANUFACTURING	0.80	LB/TON	5.800	1.780	17.800	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
PERLITE	0.82	LB/TON	4.350	0.840	21.000	0.029S	0.036S	E6 TONS	0.65	0.19	0.23
DIRECT FIRING OF MEATS	0.62	LB/TON	2445.000	195.600	2445.000	0.050S	0.033S	E6 TONS	0.034	0.017	0.011
STONE QUARRYING AND PROCESSING	0.80	LB/TON	0.379	0.155	15.500	0.050S	0.033S	E6 TONS	1225.	613.	404.
IRON AND STEEL - SINTERING	0.90	LB/TON	0.500	0.150	42.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2
COAL CLEANING - THERMAL DRYING EXIST. NEW.	0.59 0.59	LB/TON	0.410 0.340	0.099	19.800	0.050S	0.029S	E6 TONS	133.	66.5	38.6
IRON AND STEEL - BLAST FURNACE	0.90	LB/TON	1.500	1.500	150.000	0.028S	0.029S	E6 TONS	119.	33.2	34.4
IRON AND STEEL - SCARFING	0.90	LB/TON	0.138	0.030	3.000	0.028S	0.029S	E6 TONS	87.3	24.4	25.3
GLASS - SODALINE	0.80	LB/TON	1.890	0.020	2.000	0.033S	0.028S	E6 TONS	34.4	11.4	9.6
ORCHARD HEATERS	1.00	LB/TON	0.007	0.000	0.007	0.033S	0.028S	E6 TONS	60.0	19.8	16.8
INTERNAL COMB ENGS DIESEL DUALFUEL	0.58	LB/TON	5.410	4.610	5.410	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
GLASS - BPAL	0.80	LB/TON	2.240	0.022	2.240	0.033S	0.028S	E6 TONS	0.46	0.15	0.13
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	2.770	1.320	130.500	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
CLAY SINTERING	0.80	LB/TON	2.410	0.026	26.000	0.033S	0.027S	E6 TONS	0.74	0.24	0.20
VEGETABLE OIL PRODUCTION	0.92	LB/TON	8.630	0.630	63.000	0.028S	0.027S	E6 TONS	6.5	1.8	1.8
ASPHALT SATURATOR	0.90	LB/TON	1.330	0.073	7.300	0.042S	0.025S	E6 TONS	6.3	2.6	1.6
ASPHALT BLOWING	0.90	LB/TON	1.180	0.042	4.200	0.042S	0.025S	E6 TONS	3.1	1.3	0.79
PINERAL WOOD	0.82	LB/TON	4.270	3.630	32.400	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
SMOKED MEAT	0.81	LB/TON	0.300	0.100	0.300	0.040S	0.017S	E6 TONS	3.6	1.4	0.61

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES		UNITS/YR	CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	EMISSION E N	UNCONT E U	DECIMAL/YR P B		A 1975	B 1985	
SEC MAGNESIUM	0.82	LB/TON	6.780	0.680	6.780	0.0355	0.0165	0.017	0.0061	0.0028
SUGAR CANE - BAGASSE BURNING	0.75	LB/TON	3.700	2.200	22.000	0.0505	0.0155	7.0	3.5	1.0
COTTON GINNING	1.00	LB/BALE	2.090	0.480	12.000	0.0425	0.0135	10.8	4.5	1.4
COKE OVENS - BY PRODUCT	0.93	LB/TON	4.900	0.430	4.900	0.0285	0.0105	75.5	21.1	7.5
GYP SUM	0.80	LB/TON	1.510	0.302	131.700	0.0295	0.0065	15.9	4.7	0.91
PINING/MILLING LEAD BRE	0.92	LB/TON	4.170	2.090	4.170	0.0505	0.000	0.62	0.31	0.0
PRIMARY LEAD SMELTERS	0.99	LB/TON	3.060	1.190	790.000	0.0365	0.000	0.76	0.28	0.0
EXIST. NEW	0.85		3.060							
SRAP	0.90	LB/TON	0.724	0.026	13.000	0.0455	0.0005	0.55	0.25	0.0
BRASS & BRONZE SMELTING	0.80	LB/TON	3.250	0.280	70.000	0.0365	0.0005	0.38	0.13	0.0
EXIST. NEW	0.80		1.200							
ANIMAL FEED DEFLUBRINATION	0.90	LB/TON	4.570	0.063	625.000	0.0405	0.0005	0.20	0.080	0.0
SAND AND GRAVEL PROCESSING	0.80	LB/TON	0.100	0.005	0.100	0.0505	0.0005	1142.	571.	0.0
EXIST. NEW	0.85		0.794	0.440	7.300	0.0405	0.0005	1.5	0.62	0.0
COFFEE ROASTING		LB/TON								

SOURCE

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PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS						TONS/YEAR T - T S N 1985	I - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
PHOSPHATE ROCK - DRYING/HANDLING 377.		6.5	3.2	134.	5.2	5.4	3700.	0.641
FRUIT MANUFACTURING	8.2	1.9	1.3	4.0	2.7	1.7	940.	0.693
PERLITE	7.6	1.2	0.81	3.9	1.6	0.96	600.	0.807
DIRECT FIRING OF MEATS	34.0	25.5	12.8	12.8	34.0	14.5	19500.	0.920
STONE QUARRYING AND PROCESSING 10101.		186.	92.9	3798.	247.	156.	91100.	0.591
IRON AND STEEL - SINTERING 1697.		15.7	11.3	947.	20.2	14.0	6200.	0.700
COAL CLEANING - THERMAL DRYING 1002.		16.1	8.0	388.	18.6	11.1	7400.	0.709
IRON AND STEEL - BLAST FURNACE 10336.		80.1	57.7	5769.	103.	103.	0.0	0.000
IRON AND STEEL - SCARFING 152.		5.4	3.9	84.9	7.0	4.6	2400.	0.783
GLASS - SODALINE	35.3	26.0	17.4	18.5	33.3	17.6	15700.	0.989
ORCHARD HEATERS	0.27	0.21	0.14	0.14	0.27	0.14	120.	1.000
INTERNAL COMB ENGS DIESEL DUALFUEL 36.1		28.2	22.5	22.5	36.1	34.1	2000.	0.148
GLASS - OPAL	0.52	0.41	0.27	0.27	0.52	0.28	240.	0.990
BRICK & RELATED CLAY PRODUCTS 2367.		39.6	26.5	1249.	50.2	37.8	12400.	0.523
CLAY SINTERING	9.8	0.71	0.48	5.2	0.91	0.48	420.	0.989
VEGETABLE OIL PRODUCTION 240.		25.9	18.6	136.	32.9	19.7	13100.	0.927
ASPHALT SATURATOR	25.8	3.8	2.2	12.0	4.7	2.3	2300.	0.945
ASPHALT BLOWING	7.4	1.7	0.97	3.5	2.1	1.0	1000.	0.964
MINERAL WOOL	135.	14.8	10.4	79.1	17.7	16.6	1000.	0.150
SMOKED MEAT	0.51	0.44	0.26	0.26	0.51	0.35	160.	0.667

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS				T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	
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K

PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE			GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION			C 1985
			S	E	N	U	P	B	C	UNITS/YR	A 1975	
COTTON GINNING	1.00	LB/BALE	2.090		0.480	12.000	0.042S	0.013S	E6 BALE	10.8	4.5	1.4
ORCHARD HEATERS	1.00	LB/TON	0.007		0.000	0.007	0.033S	0.028S	E6 TONS	60.0	19.8	16.8
CONCRETE BATCHING	1.00	LB/TON	0.098		0.010	0.100	0.033S	0.030C	E6 TONS	327.	108.	112.
HYDROFLUORIC ACID	0.98	LB/TON	35.000		35.000	700.000	0.045S	0.049S	E6 TONS	0.45	0.20	0.22
FLUORBOARD	0.98	LB/TON	0.096		0.014	0.096	0.031S	0.015C	E6 TONS	37.2	11.5	6.0
W99D PULPING KRAFT	0.98	LB/TON	5.630		5.630	198.000	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
W99D PULPING SULFITE	0.98	LB/TON	3.000		3.000	24.000	0.031S	0.012C	E6 TONS	2.4	0.74	0.30
FLY99D - VENEER	0.95	LB/TON	0.004		0.001	0.132	0.050S	0.025C	E6 TONS	22600.	11300.	6330.
WHISKEY	0.95	LB/PRD UNT	27.900		2.180	43.600	0.032S	0.060S	E6 PU	1.3	0.42	0.78
PHOSPHATE ROCK - GRINDING	0.94	LB/TON	0.940		0.002	2.000	0.050S	0.043S	E6 TONS	25.7	12.8	11.1
CAST IRON FOUNDRY - ELEC. FURN.	0.93	LB/TON	4.500		0.045	4.500	0.028S	0.136S	E6 TONS	8.1	2.3	11.0
COKE OVENS - BY PRODUCT	0.93	LB/TON	4.900		0.430	4.900	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
PRIMARY ALUMINUM SMELTERS	0.92	LB/TON	5.820		1.800	92.000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4
VEGETABLE OIL PRODUCTION	0.92	LB/TON	8.630		0.630	63.000	0.026S	0.027S	E6 TONS	6.5	1.8	1.8
MINING/MILLING LEAD 9RE	0.92	LB/TON	4.170		2.090	4.170	0.050S	0.000	E6 TONS	0.62	0.31	0.0
PHOSPHATE ROCK - CALCINING	0.90	LB/TON	0.960		0.400	40.000	0.050S	0.048S	E6 TONS	2.5	1.3	1.2
AUTOBODY INCINERATION	0.90	LB/PRD UNT	1.970		0.540	2.000	0.039S	0.280S	E6 PU	0.29	0.11	0.82
DETERGENT	0.90	LB/TON	1.500		0.450	90.000	0.000S	0.035C	E6 TONS	2.5	0.0	1.0
ANIMAL FEED DEFLUORINATION	0.90	LB/TON	4.570		0.063	625.000	0.040S	0.000S	E6 TONS	0.20	0.080	0.0
SOAP	0.90	LB/TON	0.724		0.026	13.000	0.045S	0.000S	E6 TONS	0.55	0.25	0.0
STEEL FOUNDRIES	0.90	LB/TON	2.200		0.104	10.400	0.028S	0.073S	E6 TONS	29.3	8.2	21.4

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		INDUSTRY B 1985	C 1985
			ALLOWABLE E S	EMISSION E N	UNCONT E U	P B	P C	A 1975	B 1985		
CEMENT PLANTS EXIST. NEW	0.90 0.90	LB/TON	206.000 0.640	0.450	301.000	0.025S	0.030C	103.	25.8	35.4	
IRON & STEEL - EAF EXIST. NEW	0.90 0.90	LB/TON	4.490 1.000	0.480	28.300	0.028S	0.073S	36.7	10.3	26.8	
IRON AND STEEL - SINTERING 0.90	0.90	LB/TON	0.500	0.150	42.000	0.028S	0.029S	69.6	19.5	20.2	
FERRALLLOY - SUBMERGED ARC FURNACE 0.90	0.90	LB/TON	22.800	4.560	456.000	0.028S	0.015C	1.6	0.44	0.25	
LIME PROCESSING 0.90	0.90	LB/TON	3.400	0.203	203.000	0.050S	0.050C	26.1	13.1	16.4	
IRON AND STEEL - BLAST FURNACE 0.90	0.90	LB/TON	1.500	1.500	150.000	0.028S	0.029S	119.	33.2	34.4	
IRON & STEEL - BOF EXIST. NEW	0.90 0.90	LB/TON	0.208 0.150	0.150	51.000	0.028S	0.048S	88.9	24.9	42.7	
ASPHALT SATURATOR 0.90	0.90	LB/TON	1.330	0.073	7.300	0.042S	0.025S	6.3	2.6	1.6	
IRON AND STEEL - SCARFING 0.90	0.90	LB/TON	0.138	0.030	3.000	0.028S	0.029S	87.3	24.4	25.3	
ASPHALT BLOWING 0.90	0.90	LB/TON	1.180	0.042	4.200	0.042S	0.025S	3.1	1.3	0.79	
FERTILIZER - DAP 0.89	0.89	LB/TON	3.530	1.640	82.000	0.045S	0.054S	3.1	1.4	1.7	
PHOSPHATE ROCK - DRYING/HANDLING 0.87	0.87	LB/TON	0.340	0.122	14.000	0.050S	0.041S	43.9	21.9	18.0	
SODIUM CARBONATE - NATURAL 0.87	0.87	LB/TON	1.160	0.450	90.000	0.045S	0.130C	5.8	2.6	13.8	
FLY ASH SINTERING 0.86	0.86	LB/TON	0.400	0.110	110.000	0.033S	0.055C	7.7	2.5	5.4	
PETROLEUM REFINRY FCCU EXIST. NEW	0.85 0.85	LB/TON	0.066 0.017	0.010	0.242	0.031S	0.042C	1506.	467.	766.	
GAS TURBINE ENGINES GAS PIPELINE 0.85	0.85	LB/TON	1.180	0.000	1.180	0.020S	0.145S	4.4	0.88	6.4	
PET REF - PROG GAS COMB 0.85	0.85	LB/E6 BTU	20.000	3.000	20.000	0.031S	0.042C	0.23	0.070	0.12	
PRIMARY COPPER 0.85	0.85	LB/TON	37.900	1.220	405.000	0.036S	0.030C	2.4	0.87	0.83	
PRIMARY LEAD SHELTERS EXIST. NEW	0.99 0.85	LB/TON	3.060 3.060	1.190	790.000	0.036S	0.000	0.76	0.28	0.0	

PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C
			ALLOWABLE E	EMISSION N		P	B	P	A	B	
			S	E	U				1975	1985	1985
									UNITS/YR		
CHARCOAL	0.85	LB/TON	19.500	3.500	352.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42
COFFEE ROASTING	0.85	LB/TON	0.794	0.440	7.300	0.040S	0.000S	E6 TONS	1.5	0.62	0.0
FERTILIZER - AMMONIUM SULFATE	0.84	LB/TON	2.040	1.000	20.000	0.045S	0.116C	E6 TONS	9.3	4.2	18.5
PAINT MANUFACTURING	0.83	LB/TON	1.000	0.001	1.000	0.067S	0.026C	E6 TONS	4.9	3.3	1.5
EXPLOSIVES - HIGH	0.83	LB/TON	1.550	1.350	50.400	0.045S	0.094C	E6 TONS	1.8	0.83	2.7
STARCH	0.83	LB/TON	2.000	0.020	8.000	0.045S	0.018C	E6 TONS	4.3	1.9	0.83
PRIMARY ZINC SMELTERS	0.83	LB/TON	3.860	1.670	1665.000	0.036S	0.035C	E6 TONS	1.3	0.47	0.53
EXIST- NEW-	0.83	LB/TON	2.250								
GRAIN HANDLING - TRANSFER	0.82	LB/TON	1.940	0.200	20.000	0.037S	0.015C	E6 TONS	240.	88.7	38.5
SECONDARY COPPER - HANDLING	0.82	LB/TON	6.640	0.848	212.000	0.035S	0.037C	E6 TONS	0.73	0.25	0.32
SEC ALUMINUM - REVERB FURNACE	0.82	LB/TON	4.800	0.960	195.000	0.036S	0.047S	E6 TONS	1.4	0.51	0.67
SECONDARY ZINC - DISTILLATION	0.82	LB/TON	2.710	1.700	46.000	0.035S	0.039C	E6 TONS	0.38	0.13	0.18
GRAIN HANDLING - PROCESSING	0.82	LB/TON	2.160	0.030	6.000	0.037S	0.015C	E6 TONS	240.	88.7	38.5
GRAIN HANDLING - DRYING	0.82	LB/TON	0.770	0.060	6.000	0.037S	0.015C	E6 TONS	47.9	17.7	7.7
MINERAL WOOL	0.82	LB/TON	4.270	3.630	32.400.	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
POLYVINYL CHLORIDE	0.82	LB/TON	3.180	0.350	35.000	0.000S	0.078C	E6 TONS	2.7	0.0055	3.1
GRAIN HANDLING - SCREENING	0.82	LB/TON	1.610	0.060	6.000	0.037S	0.015C	E6 TONS	240.	88.7	38.5
SEC MAGNESIUM	0.82	LB/TON	6.780	0.680	6.780	0.035S	0.016S	E6 TONS	0.017	0.0061	0.0028
PERLITE	0.82	LB/TON	4.350	0.840	21.000	0.029S	0.036S	E6 TONS	0.65	0.19	0.23
SECONDARY COPPER - SMELTING	0.82	LB/TON	3.470	0.338	84.600	0.035S	0.037C	E6 TONS	1.8	0.64	0.82
SECONDARY ZINC - SWEATING	0.82	LB/TON	3.860	0.872	23.600	0.035S	0.039C	E6 TONS	0.20	0.070	0.093
DEEP FAT FRYING	0.81	LB/TON	7.130	0.119	11.900	0.028S	0.043C	E6 TONS	2.6	0.74	1.4

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES			UNITS/YR	INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E S	E N		P B	P C	A 1975		B 1985	C 1985	
FISH MEAL PROCESSING	0.81	LB/TON	0.400	0.040	0.400	0.008S	0.000C	E6 TONS	0.36	0.029	0.0	
BEER PROCESSING	0.81	LB/TON	2.090	0.270	5.450	0.040S	0.070C	E6 TONS	7.2	2.9	7.0	
PHOSPHORIC ACID - THERMAL PROCESS	0.81	LB/TON	2.270	0.134	134.000	0.045S	0.014C	E6 TONS	1.4	0.63	0.21	
SMOKED MEAT	0.81	LB/TON	0.300	0.100	0.300	0.040S	0.017S	E6 TONS	3.6	1.4	0.61	
CASTABLE REFRACTORY	0.80	LB/TON	5.320	4.620	254.000	0.033S	0.043C	E6 TONS	0.39	0.13	0.20	
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	2.770	1.320	130.500	0.033S	0.027S	E6 TONS	35.7	11.8	9.6	
BRASS & BRONZE SMELTING EXIST. NEW	0.80 0.80	LB/TON	3.250 1.200	0.280	70.000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0	
CLAY SINTERING	0.80	LB/TON	2.410	0.026	26.000	0.033S	0.027S	E6 TONS	0.74	0.24	0.20	
GLASS - SODALIME	0.80	LB/TON	1.890	0.020	2.000	0.033S	0.028S	E6 TONS	34.4	11.4	9.6	
GLASS - OPAL	0.80	LB/TON	2.240	0.022	2.240	0.033S	0.028S	E6 TONS	0.46	0.15	0.13	
GYPSUM	0.80	LB/TON	1.510	0.302	131.700	0.029S	0.006S	E6 TONS	15.9	4.7	0.91	
FRUIT MANUFACTURING	0.80	LB/TON	5.800	1.780	17.800	0.033S	0.037S	E6 TONS	0.84	0.28	0.31	
SAND AND GRAVEL PROCESSING	0.80	LB/TON	0.100	0.005	0.100	0.050S	0.000S	E6 TONS	1142.	571.	0.0	
CERAMIC CLAY	0.80	LB/TON	2.750	1.755	175.500	0.033S	0.042S	E6 TONS	13.9	4.6	5.8	
STONE QUARRYING AND PROCESSING	0.80	LB/TON	0.379	0.155	15.500	0.050S	0.033S	E6 TONS	1225.	613.	404.	
POLYPROPYLENE	0.78	LB/TON	2.670	0.030	3.000	0.003S	0.150C	E6 TONS	1.6	0.048	4.9	
CARBON BLACK - FURNACE PROCESS	0.77	LB/TON	3.100	2.200	220.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56	
FERTILIZER - NITRATES	0.77	LB/TON	1.640	0.254	12.720	0.045S	0.070C	E6 TONS	10.5	4.7	10.2	
FERTILIZER GTSP STORAGE	0.76	LB/TON	1.110	0.022	2.170	0.045S	0.042C	E6 TONS	1.2	0.53	0.60	
LEAD ACID BATTERY	0.76	LB/PRD UNIT	0.032	0.000	0.130	0.040S	0.050C	E6 PU	80.0	32.0	50.3	
SUGAR CANE - BAGASSE BURNING	0.75	LB/TON	3.700	2.200	22.000	0.050S	0.015S	E6 TONS	7.0	3.5	1.0	

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E S	UNCNT E N	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
STYRENE - BUTADIENE RUBBER	0.75	LB/TON	0.700	0.120	0.003S	0.020C	E6 TONS	2.3	0.070	0.51
SYNTHETIC FIBER - NYLON	0.72	LB/TON	1.530	0.750	0.045S	0.127C	E6 TONS	1.7	0.77	4.0
FIBERGLASS MFG - WOOD PRODUCTS	0.70	LB/TON	8.640	8.640	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
FIBERGLASS MFG - TEXTILE PRODUCTS	0.70	LB/TON	2.780	1.460	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
SEC ALUMINUM - SWEAT FURNACE	0.68	LB/TON	7.360	1.980	0.036S	0.047S	E6 TONS	0.30	0.11	0.14
SYNTHETIC RESINS - POLYESTER	0.68	LB/TON	4.100	0.350	0.045S	0.170C	E6 TONS	1.0	0.46	3.9
SYNTHETIC FIBER - DACRON	0.68	LB/TON	1.580	0.350	0.045S	0.164C	E6 TONS	2.3	1.0	8.2
SECONDARY LEAD - PPT FURNACE	0.68	LB/TON	1.360	0.041	0.024S	0.032C	E6 TONS	0.065	0.016	0.024
SECONDARY LEAD - REVERB	0.68	LB/TON	6.440	1.050	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
EXIST. NEW	0.68	LB/TON	1.250	277.000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
SECONDARY LEAD - BLAST	0.68	LB/TON	4.350	1.050	0.024S	0.032C	E6 TONS	0.034	0.017	0.011
EXIST. NEW	0.68	LB/TON	1.250	2445.000	0.050S	0.033S	E6 TONS	133.	66.5	38.6
DIRECT FIRING OF HEATS	0.62	LB/TON	2445.000	195.600	0.050S	0.033S	E6 TONS	0.036	0.0	6.2
COAL CLEANING - THERMAL DRYING	0.59	LB/TON	0.410	0.099	0.050S	0.029S	E6 TONS	18.0	3.6	5.0
EXIST. NEW	0.59	LB/TON	0.340	19.800	0.050S	0.029S	E6 TONS	163.	81.4	20.6
MIXED FUEL BOILERS - OIL & REFUSE	0.58	LB/TON	5.000	1.020	0.000S	17.290S	E6 TONS	0.16	0.0	27.0
INTERNAL COMB ENGS DIESEL DUAL FUEL	0.58	LB/TON	5.410	4.610	0.020S	0.028S	E6 TONS	28011.	14006.	19836.
WASTE BOILERS	0.58	LB/TON	3.010	0.280	0.050S	0.012C	E6 TONS	32.5	12.7	14.9
MIXED FUEL BOILERS - COAL & REFUSE	0.58	LB/TON	5.000	3.660	0.000S	17.290S	E6 TONS	4.1	1.2	1.7
BLR >250 E6 BTU/HR	0.58	LB/E6 BTU	0.277	0.050	0.050S	0.055C	E12 BTU			
EXIST. NEW	0.58	LB/E6 BTU	0.100	0.990	0.039S	0.046S	E6 TONS			
MUNICIPAL INCINERATION	0.56	LB/TON	4.600	0.250	0.029S	0.035C	E6 TONS			
EXIST. NEW	0.56	LB/TON	1.460	50.000	0.029S	0.035C	E6 TONS			
FEED MILLING - ALFALFA DEHYDR.	0.50	LB/TON	2.060	0.250	0.029S	0.035C	E6 TONS			

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N	UNCONT E U	P B	P C	A 1975	B 1985	C 1985
FEED MILLING - OTHER	0.50									
SLUDGE INCINERATION	0.50	LB/TON	2.050	0.100	20.000	0.029S	0.035C	21.4	6.2	8.8
EXIST.	0.50	LB/TON	5.000	1.600	119.000	0.033S	0.250S	1.2	0.39	2.9
NEW	0.50		1.600							
ASPHALT BATCHING										
EXIST.	0.47	LB/TON	0.376	0.045	15.000	0.008S	0.050S	1480.	118.	740.
NEW	0.47		0.169							
INDUSTRIAL/COMMERCIAL INCINERATION										
EXIST.	0.38	LB/TON	6.470	0.065	6.470	0.039S	0.110C	32.6	12.7	60.0
NEW	0.34									
PATHOLOGICAL INCINERATION										
EXIST.	0.34	LB/TON	4.600	1.900	12.800	0.039S	0.026C	0.13	0.051	0.038
NEW	0.32		3.800							
BLR 10-250 E6 BTU/HR										
EXIST.	0.32	LB/E6 BTU	0.383	0.127	2.020	0.050S	0.014C	19534.	9767.	2914.
NEW	0.32		0.334							
BOILERS <3 MM BTU/HR										
EXIST.	0.30	LB/E6 BTU	0.039	0.000	0.039	0.020S	0.029C	24572.	4914.	8131.
NEW	0.25									
BOILERS 3-10 MM BTU/HR										
EXIST.	0.25	LB/E6 BTU	0.250	0.048	0.250	0.037S	0.043C	26471.	9794.	13857.
NEW	0.22									
GAS TURBINE ENGINES										
EXIST.	0.22	LB/TON	3.740	0.000	3.740	0.020S	0.270S	54.1	10.8	146.

PARTICULATES

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				T N 1985	TONS/YEAR T-S 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985				
COTTON GINNING	73.2	11.3	6.5	37.6	12.8	8.0	4700.	0.770	
• BRCHARD HEATERS	0.27	0.21	0.14	0.14	0.27	0.14	120.	1.000	
CONCRETE BATCHING	21.9	16.0	10.7	10.9	21.5	11.8	9600.	0.898	
HYDROFLUORIC ACID	229.	7.7	4.2	84.7	11.5	11.5	0.0	0.000	
PULPBORD	2.0	1.7	1.2	1.2	2.0	1.3	700.	0.854	
WOOD PULPING KRAFT	3706.	93.5	64.5	2269.	105.	105.	0.0	0.000	
WOOD PULPING SULFITE	31.8	3.5	2.4	19.5	4.0	4.0	0.0	0.000	
PLYWOOD - VENEER	1814.	42.9	21.5	709.	55.0	32.4	22600.	0.675	
WHISKEY	43.2	17.3	11.8	18.4	27.6	13.0	14600.	0.922	
PHOSPHATE ROCK - GRINDING	34.5	11.4	5.7	12.1	16.2	5.7	10500.	0.998	
CAST IRON FOUNDRY - ELEC. FURN.	40.0	16.9	12.2	12.2	40.0	12.5	27500.	0.990	
COKE OVENS - BY PRODUCT	189.	172.	124.	124.	189.	130.	59600.	0.912	
PRIMARY ALUMINUM SMELTERS	523.	16.1	10.4	165.	33.1	17.5	15600.	0.691	
VEGETABLE OIL PRODUCTION	240.	25.9	18.6	136.	32.9	19.7	13100.	0.927	
MINING/MILLING LEAD ORE	1.2	1.2	0.60	0.60	1.2	0.90	290.	0.499	
PHOSPHATE ROCK - CALCINING	67.9	1.1	0.55	22.9	1.6	1.0	620.	0.583	
AUTOBODY INCINERATION	1.0	0.26	0.16	0.16	0.99	0.39	600.	0.726	
DETERGENT	143.	1.7	1.7	101.	2.4	1.9	480.	0.700	
ANIMAL FEED DEFLUORINATION	56.2	0.41	0.25	33.8	0.41	0.25	160.	0.986	
SOAP	3.2	0.18	0.099	1.8	0.18	0.10	70.0	0.964	

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS						TONS/YEAR T - T S N 1985	I - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
STEEL FOUNDRIES	237.	29.0	20.9	98.7	50.2	22.3	27900.	0.953
CEMENT PLANTS	18749.	9548.	7161.	10464.	7179.	7173.	5200.	0.297
IRON & STEEL - EAF	809.	74.2	53.4	337.	70.1	61.4	8600.	0.520
IRON AND STEEL - SINTERING	1697.	15.7	11.3	947.	20.2	14.0	6200.	0.700
FERROALLOY - SUBMERGED ARC FURNACE	372.	16.0	11.5	230.	18.6	12.9	5600.	0.800
LIME PROCESSING	3891.	40.0	20.0	1194.	65.2	22.7	42400.	0.960
IRON AND STEEL - BLAST FURNACE	10336.	80.1	57.7	5769.	103.	103.	0.0	0.000
IRON & STEEL - BOF	3020.	8.3	6.0	1469.	10.6	10.6	0.0	0.000
ASPHALT SATURATOR	25.8	3.8	2.2	12.0	4.7	2.3	2300.	0.945
IRON AND STEEL - SCARFING	152.	5.4	3.9	84.9	7.0	4.6	2400.	0.783
ASPHALT BLOWING	7.4	1.7	0.97	3.5	2.1	1.0	1000.	0.964
FERTILIZER - DAP	176.	4.9	2.7	63.0	7.6	5.0	2600.	0.535
PHOSPHATE ROCK - DRYING/HANDLING	377.	6.5	3.2	134.	9.2	5.4	3700.	0.641
SODIUM CARBONATE - NATURAL	764.	2.9	1.6	124.	9.8	4.8	5000.	0.612
FLY ASH SINTERING	621.	1.3	0.89	243.	2.3	1.3	990.	0.725
PETROLEUM REFINRY FCCU	234.	42.2	29.1	107.	38.1	34.4	3600.	0.412
• GAS TURBINE ENGINES GAS PIPELINE	5.4	2.2	1.8	1.8	5.4	1.8	3600.	1.000
PET REF - PROC GAS COMB	2.9	1.9	1.3	1.3	2.9	1.6	1300.	0.850
PRIMARY COPPER	557.	38.8	24.8	265.	52.2	25.7	26400.	0.968
PRIMARY LEAD SMELTERS	272.	1.2	0.64	164.	1.1	0.80	250.	0.611

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				T S N 1985	T - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
CHARCOAL	181.	6.6	3.6	65.4	10.0	4.8	5200.	0.821
COFFEE ROASTING	4.8	0.52	0.31	2.9	0.52	0.43	90.0	0.446
FERTILIZER - AMMONIUM SULFATE	233.	7.9	4.4	42.8	23.8	13.9	9900.	0.510
PAINT MANUFACTURING	2.7	2.0	0.68	0.68	2.7	0.68	1900.	0.999
EXPLOSIVES - HIGH	94.4	1.2	0.65	21.1	2.9	2.6	290.	0.129
STARCH	15.9	3.5	1.9	7.8	4.2	2.0	2200.	0.990
PRIMARY ZINC SMELTERS	1267.	2.1	1.3	575.	2.3	2.0	240.	0.258
GRAIN HANDLING - TRANSFER	2280.	191.	120.	1238.	221.	130.	90600.	0.897
SECONDARY COPPER - HANDLING	91.2	2.0	1.3	41.1	2.9	1.5	1300.	0.872
SEC ALUMINUM - REVERB FURNACE	167.	2.8	1.8	73.1	4.1	2.3	1800.	0.800
SECONDARY ZINC - DISTILLATION	10.5	0.42	0.27	4.7	0.62	0.49	120.	0.373
GRAIN HANDLING - PROCESSING	684.	212.	134.	371.	246.	135.	111000.	0.986
GRAIN HANDLING - DRYING	137.	15.1	9.5	74.2	17.5	10.2	7300.	0.922
MINERAL WOOL	135.	14.4	10.4	79.1	17.7	16.6	1000.	0.150
POLYVINYL CHLORIDE	83.3	3.6	3.6	39.2	7.6	4.0	3500.	0.890
GRAIN HANDLING - SCREENING	684.	158.	99.6	371.	184.	103.	80700.	0.963
SEC MAGNESIUM	0.056	0.049	0.032	0.032	0.056	0.034	20.0	0.900
PERLITE	7.6	1.2	0.81	3.9	1.6	0.96	600.	0.807
SECONDARY COPPER - SMELTING	92.2	2.6	1.7	41.5	3.8	1.9	1800.	0.903
SECONDARY ZINC - SWEATING	2.8	0.32	0.21	1.3	0.46	0.26	190.	0.774

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS				T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985
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PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS										TONS/YEAR T-S N 1985	I - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR	T UE 1985	T S 1985	T N 1985					
LEAD ACID BATTERY	6.4	0.97	0.58		2.4	1.6	0.59	990.	0.996			
SUGAR CANE - BAGASSE BURNING	65.4	9.7	4.9		28.9	11.2	8.6	2500.	0.405			
STYRENE - BUTADIENE RUBBER	0.75	0.62	0.60		0.60	0.75	0.62	120.	0.829			
SYNTHETIC FIBER - NYLON	30.6	0.94	0.52		5.1	3.1	1.8	1300.	0.510			
FIBERGLASS MFG.-WOOL PRODUCTS	55.0	3.3	1.2		13.7	4.9	4.9	0.0	0.000			
FIBERGLASS MFG.-TEXTILE PRODUCTS	48.2	0.50	0.19		5.7	1.6	0.93	660.	0.475			
SEC ALUMINUM - SWEAT FURNACE	5.0	0.76	0.49		2.2	1.1	0.65	450.	0.731			
SYNTHETIC RESINS - POLYESTER	11.7	1.4	0.78		1.3	6.8	1.3	5500.	0.915			
SYNTHETIC FIBER - DACRON	24.9	1.2	0.68		3.0	5.6	1.8	3800.	0.778			
SECONDARY LEAD - PBT FURNACE	0.04	0.030	0.023		0.023	0.041	0.023	10.0	0.970			
SECONDARY LEAD - REVERB	92.0	1.6	1.2		51.0	1.4	1.3	20.0	0.160			
SECONDARY LEAD - BLAST	18.7	0.22	0.17		10.4	0.20	0.20	6.1	0.160			
DIRECT FIRING OF HEATS	34.0	25.5	12.8		12.8	34.0	14.5	19500.	0.920			
COAL CLEANING - THERMAL DRYING	1002.	16.1	8.0		388.	18.6	11.1	7400.	0.709			
MIXED FUEL BOILERS - OIL & REFUSE	184.	0.052	0.052		1.1	9.1	1.9	7100.	0.796			
INTERNAL COMB ENGS DIESEL DUALFUEL	36.1	28.2	22.5		22.5	36.1	34.1	2000.	0.148			
WROD WASTE BOILERS	1464.	142.	71.1		650.	160.	79.4	80800.	0.907			
MIXED FUEL BOILERS - COAL & REFUSE	2879.	0.23	0.23		16.6	39.3	28.9	10400.	0.268			
BLR >250 E6 BTU/HR	43153.	2250.	1125.		12632.	2106.	1616.	490000.	0.500			
MUNICIPAL INCINERATION	262.	41.9	25.5		109.	36.8	33.2	3600.	0.322			

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS						TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
FEED MILLING - ALFALFA DEHYDR.								
71.9		2.1	1.5	36.2	3.0	1.7	1200.	0.879
FEED MILLING - OTHER								
151.		11.0	7.8	75.9	15.5	8.2	7300.	0.951
SLUDGE INCINERATION								
122.		1.5	0.98	23.4	2.3	2.3	0.0	-0.000
ASPHALT BATCHING								
7826.		131.	120.	4800.	154.	129.	25000.	0.734
INDUSTRIAL/COMMERCIAL INCINERATION								
114.		40.1	24.4	24.4	114.	25.3	88400.	0.990
PATHOLOGICAL INCINERATION								
0.37		0.10	0.062	0.17	0.12	0.091	20.0	0.500
BLR 10-250 E6 BTU/HR								
7255.		1197.	599.	3157.	1276.	856.	419000.	0.620
• BOILERS < 3 MM BTU/HR								
191.		144.	115.	115.	191.	115.	76300.	1.000
BOILERS .3-10 MM BTU/HR								
1260.		827.	521.	521.	1260.	663.	597000.	0.808
• GAS TURBINE ENGINES ELECTRIC UTILITIES								
82.3		22.3	17.8	17.8	82.3	17.8	64500.	1.000

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PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES			CAPACITY/PRODUCTION			INDUSTRY			
			ALL AVAILABLE E	S	E	N	UNCENT E	P	B	C	UNITS/YR		A	B	C
BLR >250 E6 BTU/HR	0.58	LB/E6 BTU	0.277	0.050	3.110	0.050S	0.055C	E12 BTU	28011.	14006.	19836.				
EXIST. NEW.	0.58		0.100												
CEMENT PLANTS	0.90	LB/TON	206.000	0.450	301.000	0.025S	0.030C	E6 TONS	103.	25.8	35.4				
EXIST. NEW.	0.90		0.640												
IRON AND STEEL - BLAST FURNACE	0.90	LB/TON	1.500	1.500	150.000	0.028S	0.029S	E6 TONS	119.	33.2	34.4				
STONE QUARRYING AND PROCESSING	0.80	LB/TON	0.379	0.155	15.500	0.050S	0.033S	E6 TONS	1225.	613.	404.				
ASPHALT BATCHING	0.47	LB/TON	0.376	0.045	15.000	0.008S	0.050S	E6 TONS	1480.	118.	740.				
EXIST. NEW.	0.47		0.169												
BLR 10-250 E6 BTU/HR	0.32	LB/E6 BTU	0.383	0.127	2.020	0.050S	0.014C	E12 BTU	19534.	9767.	2914.				
EXIST. NEW.	0.32		0.334												
LINE PROCESSING	0.90	LB/TON	3.400	0.203	203.000	0.050S	0.050C	E6 TONS	26.1	13.1	16.4				
WOOD PULPING KRAFT	0.98	LB/TON	5.630	5.630	198.000	0.031S	0.012C	E6 TONS	33.9	10.5	4.3				
IRON & STEEL - BOF	0.90	LB/TON	0.208	0.150	51.000	0.028S	0.048S	E6 TONS	88.9	24.9	42.7				
EXIST. NEW.	0.90		0.150												
MIXED FUEL BOILERS - COAL & REFUSE	0.58	LB/TON	5.000	3.660	366.000	0.000S	17.290S	E6 TONS	0.16	0.0	27.0				
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	2.770	1.320	130.500	0.033S	0.027S	E6 TONS	35.7	11.8	9.6				
GRAIN HANDLING - TRANSFER	0.82	LB/TON	1.940	0.200	20.000	0.037S	0.015C	E6 TONS	240.	88.7	38.5				
PLYWOOD - VENEER	0.95	LB/TON	0.004	0.001	0.132	0.050S	0.025C	E6 TONS	22600.	11300.	6330.				
IRON AND STEEL - SINTERING	0.90	LB/TON	0.500	0.150	42.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2				
WOOD WASTE BOILERS	0.58	LB/TON	3.010	0.280	27.500	0.050S	0.012C	E6 TONS	163.	81.4	20.6				
CERAMIC CLAY	0.80	LB/TON	2.750	1.755	175.500	0.033S	0.042S	E6 TONS	13.9	4.6	5.8				
PRIMARY ZINC SMELTERS	0.83	LB/TON	3.860	1.670	1665.000	0.036S	0.035C	E6 TONS	1.3	0.47	0.53				
EXIST. NEW.	0.83		2.250												
BOILERS 3-10 MM BTU/HR	0.25	LB/E6 BTU	0.250	0.048	0.250	0.037S	0.043C	E12 BTU	26471.	9794.	13857.				

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES		UNITS/YR	CAPACITY/PRODUCTION		C
			ALLOWABLE E	N	P	B		A	B	
COAL CLEANING - THERMAL DRYING EXIST. NEW	0.59 0.59	LB/TON	0.410 0.340	0.099	0.050S	0.029S	E6 TONS	133.	66.5	38.6
GYP SUM										
IRON & STEEL - EAF EXIST. NEW	0.80 0.90 0.90	LB/TON	1.510 4.490 1.000	0.302 0.480	0.029S 0.028S	0.006S 0.073S	E6 TONS E6 TONS	15.9 36.7	4.7 10.3	0.91 26.8
SODIUM CARBONATE - NATURAL 0.87 LB/TON			1.160	0.450	0.045S	0.130C	E6 TONS	5.8	2.6	13.8
GRAIN HANDLING - PROCESSING 0.82 LB/TON			2.160	0.030	0.037S	0.015C	E6 TONS	240.	88.7	38.5
GRAIN HANDLING - SCREENING 0.82 LB/TON			1.610	0.060	0.037S	0.015C	E6 TONS	240.	88.7	38.5
FLY ASH SINTERING 0.86 LB/TON			0.400	0.110	0.033S	0.055C	E6 TONS	7.7	2.5	5.4
PRIMARY COPPER 0.85 LB/TON			37.900	1.220	0.036S	0.030C	E6 TONS	2.4	0.87	0.83
PRIMARY ALUMINUM SMELTERS 0.92 LB/TON			5.820	1.800	0.035S	0.075C	E6 TONS	6.0	2.1	6.4
PHOSPHATE ROCK - DRYING/HANDLING 0.87 LB/TON			0.340	0.122	0.050S	0.041S	E6 TONS	43.9	21.9	18.0
FERRALLLOY - SUBMERGED ARC FURNACE 0.90 LB/TON			22.800	4.560	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
PRIMARY LEAD SMELTERS EXIST. NEW	0.99 0.85	LB/TON	3.060 3.060	1.190	0.036S	0.000	E6 TONS	0.76	0.28	0.0
MUNICIPAL INCINERATION EXIST. NEW	0.56 0.56	LB/TON	4.600 1.460	0.990	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
VEGETABLE OIL PRODUCTION										
STEEL FOUNDRIES 0.90 LB/TON			8.630	0.630	0.028S	0.027S	E6 TONS	6.5	1.8	1.8
PETROLEUM REFINRY FCCU EXIST. NEW	0.85 0.85	LB/TON	2.200 0.066 0.017	0.104 0.010	0.028S 0.031S	0.073S 0.042C	E6 TONS E6 TONS	29.3 1506.	8.2 467.	21.4 766.
FERTILIZER - AMMONIUM SULFATE 0.84 LB/TON			2.040	1.000	0.045S	0.116C	E6 TONS	9.3	4.2	18.5
HYDROFLUORIC ACID 0.98 LB/TON			35.000	35.000	0.045S	0.049S	E6 TONS	0.45	0.20	0.22
CARBON BLACK - FURNACE PROCESS 0.77 LB/TON			3.100	2.200	0.045S	0.025C	E6 TONS	2.0	0.89	0.56

PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES			CAPACITY/PRODUCTION		C
			ALLOWABLE E S	E N	UNCENT E U	P B	P C	UNITS/YR	A 1975	B 1985	1985
BOILERS < 3 MM BTU/HR	0.30	LB/E6 BTU	0.039	0.000	0.039	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
COKE OVENS - BY PRODUCT	0.93	LB/TON	4.900	0.430	4.900	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
MIXED FUEL BOILERS - OIL & REFUSE	0.58	LB/TON	5.000	1.020	101.500	0.000S	17.290S	E6 TONS	0.036	0.0	6.2
CHARCOAL											
FERTILIZER - DAP	0.85	LB/TON	19.500	3.500	352.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42
SEC ALUMINUM - REVERB FURNACE	0.89	LB/TON	3.530	1.640	82.000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
IRON AND STEEL - SCARFING	0.82	LB/TON	4.800	0.960	195.000	0.036S	0.047S	E6 TONS	1.4	0.51	0.67
FEED MILLING - OTHER	0.90	LB/TON	0.138	0.030	3.000	0.028S	0.029S	E6 TONS	87.3	24.4	25.3
DETERGENT	0.50	LB/TON	2.060	0.100	20.000	0.029S	0.035C	E6 TONS	21.4	6.2	8.8
GRAIN HANDLING - DRYING	0.90	LB/TON	1.500	0.450	90.000	0.000S	0.035C	E6 TONS	2.5	0.0	1.0
MINERAL WOOL	0.82	LB/TON	0.770	0.060	6.000	0.037S	0.015C	E6 TONS	47.9	17.7	7.7
SLUDGE INCINERATION	0.82	LB/TON	4.270	3.630	32.400	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
EXIST. NEW	0.50 0.50	LB/TON	5.000 1.600	1.600	119.000	0.033S	0.250S	E6 TONS	1.2	0.39	2.9
INDUSTRIAL/COMMERCIAL INCINERATION	0.38	LB/TON	6.470	0.065	6.470	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
FERTILIZER - NITRATES	0.77	LB/TON	1.640	0.254	12.720	0.045S	0.070C	E6 TONS	10.5	4.7	10.2
EXPLOSIVES - HIGH	0.83	LB/TON	1.550	1.350	50.400	0.045S	0.094C	E6 TONS	1.8	0.83	2.7
SECONDARY COPPER - SMELTING	0.82	LB/TON	3.470	0.338	84.600	0.035S	0.037C	E6 TONS	1.8	0.64	0.82
EXIST. NEW	0.68 0.68	LB/TON	6.440 1.250	1.050	277.000	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
SECONDARY COPPER - HANDLING	0.82	LB/TON	6.640	0.848	212.000	0.035S	0.037C	E6 TONS	0.73	0.25	0.32
PHOSPHORIC ACID - THERMAL PROCESS	0.81	LB/TON	2.270	0.134	134.000	0.045S	0.014C	E6 TONS	1.4	0.63	0.21
POLYVINYL CHLORIDE	0.82	LB/TON	3.180	0.350	35.000	0.000S	0.078C	E6 TONS	2.7	0.0055	3.1

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	EMISSION E N		P	B	C	A 1975	B 1985	
GAS TURBINE ENGINES	0.22	LB/TON	3.740	0.000	3.740	0.020S	0.270S	E6 TONS	54.1	10.8	146.
COTTON GINNING	1.00	LB/BALE	2.090	0.480	12.000	0.042S	0.013S	E6 BALE	10.8	4.5	1.4
FEED MILLING - ALFALFA DEHYDR.	0.50	LB/TON	2.060	0.250	50.000	0.029S	0.035C	E6 TONS	4.1	1.2	1.7
PHOSPHATE ROCK - CALCINING	0.90	LB/TON	0.960	0.400	40.000	0.050S	0.048S	E6 TONS	2.5	1.3	1.2
SUGAR CANE - BAGASSE BURNING	0.75	LB/TON	3.700	2.200	22.000	0.050S	0.015S	E6 TONS	7.0	3.5	1.0
CASTABLE REFRACTORY	0.80	LB/TON	5.320	4.620	254.000	0.033S	0.043C	E6 TONS	0.39	0.13	0.20
ANIMAL FEED DEFLORINATION	0.90	LB/TON	4.570	0.063	625.000	0.040S	0.000S	E6 TONS	0.20	0.080	0.0
FIBERGLASS MFG. - WOOL PRODUCTS	0.70	LB/TON	8.640	8.640	96.000	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
FIBERGLASS MFG. - TEXTILE PRODUCTS	0.70	LB/TON	2.780	1.460	84.000	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
SAND AND GRAVEL PROCESSING	0.80	LB/TON	0.100	0.005	0.100	0.050S	0.000S	E6 TONS	1142.	571.	0.0
WHISKEY	0.95	LB/PRD UNT	27.900	2.180	43.600	0.032S	0.060S	E6 PU	1.3	0.42	0.78
CAST IRON FOUNDRY - ELEC. FURN.	0.93	LB/TON	4.500	0.045	4.500	0.028S	0.136S	E6 TONS	8.1	2.3	11.0
INTERNAL COMB ENGS DIESEL DUALFUEL	0.58	LB/TON	5.410	4.610	5.410	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
GLASS - SODALIME	0.80	LB/TON	1.890	0.020	2.000	0.033S	0.028S	E6 TONS	34.4	11.4	9.6
PHOSPHATE ROCK - GRINDING	0.94	LB/TON	0.940	0.002	2.000	0.050S	0.043S	E6 TONS	25.7	12.8	11.1
DIRECT FIRING OF MEATS	0.62	LB/TON	2445.000	195.600	2445.000	0.050S	0.033S	E6 TONS	0.034	0.017	0.011
WOOD PULPING SULFITE	0.98	LB/TON	3.000	3.000	24.000	0.031S	0.012C	E6 TONS	2.4	0.74	0.30
BEER PROCESSING	0.81	LB/TON	2.090	0.270	5.450	0.040S	0.070C	E6 TONS	7.2	2.9	7.0
SYNTHETIC FIBER - NYLON	0.72	LB/TON	1.530	0.750	15.000	0.045S	0.127C	E6 TONS	1.7	0.77	4.0
ASPHALT SATURATOR	0.90	LB/TON	1.330	0.073	7.300	0.042S	0.025S	E6 TONS	6.3	2.6	1.6
SYNTHETIC FIBER - DACRON	0.68	LB/TON	1.580	0.350	7.000	0.045S	0.164C	E6 TONS	2.3	1.0	8.2

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N	UNCONT E U	P B	C	A 1975	B 1985	C 1985
CONCRETE BATCHING										
DEEP FAT FRYING	1.00	LB/TON	0.098	0.010	0.100	0.033S	0.030C	327.	108.	112.
SECONDARY LEAD - BLAST EXIST.	0.81	LB/TON	7.130	0.119	11.900	0.028S	0.043C	2.6	0.74	1.4
NEW	0.68	LB/TON	4.350	1.050	271.000	0.024S	0.032C	0.15	0.036	0.055
STARCH	0.68		1.250							
SYNTHETIC RESINS - POLYESTER	0.83	LB/TON	2.000	0.020	8.000	0.045S	0.018C	4.3	1.9	0.83
0.68		LB/TON	4.100	0.350	7.000	0.045S	0.170C	1.0	0.46	3.9
SECONDARY ZINC - DISTILLATION										
0.82		LB/TON	2.710	1.700	46.000	0.035S	0.039C	0.38	0.13	0.18
BRASS & BRONZE SMELTING EXIST.	0.80	LB/TON	3.250	0.280	70.000	0.036S	0.000S	0.38	0.13	0.0
NEW	0.80		1.200							
CLAY SINTERING										
0.80		LB/TON	2.410	0.026	26.000	0.033S	0.027S	0.74	0.24	0.20
FRIT MANUFACTURING	0.80	LB/TON	5.800	1.780	17.800	0.033S	0.037S	0.84	0.28	0.31
POLYPROPYLENE										
0.78		LB/TON	2.670	0.030	3.000	0.003S	0.150C	1.6	0.048	4.9
PERLITE										
0.82		LB/TON	4.350	0.840	21.000	0.029S	0.036S	0.65	0.19	0.23
ASPHALT BLOWING	0.90	LB/TON	1.180	0.042	4.200	0.042S	0.025S	3.1	1.3	0.79
LEAD ACID BATTERY										
0.76		LB/PRD UNIT	0.032	0.000	0.130	0.040S	0.050C	80.0	32.0	50.3
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	1.180	0.000	1.180	0.020S	0.145S	4.4	0.88	6.4
SEC ALUMINUM - SWEAT FURNACE	0.68	LB/TON	7.360	1.980	33.000	0.036S	0.047S	0.30	0.11	0.14
COFFEE ROASTING										
0.85		LB/TON	0.794	0.440	7.300	0.040S	0.000S	1.5	0.62	0.0
SBAP										
0.90		LB/TON	0.724	0.026	13.000	0.045S	0.000S	0.55	0.25	0.0
FET REF - PROC GAS COMB	0.85	LB/E6 BTU	20.000	3.000	20.000	0.031S	0.042C	0.23	0.070	0.12
SECONDARY ZINC - SWEATING	0.82	LB/TON	3.860	0.872	23.600	0.035S	0.039C	0.20	0.070	0.093
PAINT MANUFACTURING	0.83	LB/TON	1.000	0.001	1.000	0.067S	0.026C	4.9	3.3	1.5

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCERT E	GROWTH RATES DECIMAL/YR			UNITS/YR	CAPACITY/PRODUCTION		C
			ALLOWABLE E	EMISSION E		P	B	P		A	B	
			S	N	U					1975	1985	1985
PULPBOARD												
FERTILIZER GTSP STORAGE	0.98	LB/TON	0.096	0.014	0.096	0.031S	0.015C		E6 TONS	37.2	11.5	6.0
PINING/MILLING LEAD ORE	0.76	LB/TON	1.110	0.022	2.170	0.045S	0.042C		E6 TONS	1.2	0.53	0.60
ALUMINUM INCINERATION	0.92	LB/TON	4.170	2.090	4.170	0.050S	0.000		E6 TONS	0.62	0.31	0.0
STYRENE - BUTADIENE RUBBER	0.90	LB/PRD UNIT	1.970	0.540	2.000	0.039S	0.280S		E6 PU	0.29	0.11	0.82
GLASS - SPAL	0.75	LB/TON	0.700	0.120	0.700	0.003S	0.020C		E6 TONS	2.3	0.070	0.51
SMOKED MEAT	0.80	LB/TON	2.240	0.022	2.240	0.033S	0.028S		E6 TONS	0.46	0.15	0.13
PATHOLOGICAL INCINERATION	0.81	LB/TON	0.300	0.100	0.300	0.040S	0.017S		E6 TONS	3.6	1.4	0.61
EXIST. NEW	0.34	LB/TON	4.600	1.900	12.800	0.039S	0.026C		E6 TONS	0.13	0.051	0.038
ORCHARD HEATERS	0.34		3.800									
FISH MEAL PROCESSING	1.00	LB/TON	0.007	0.000	0.007	0.033S	0.028S		E6 TONS	60.0	19.8	16.8
SEC MAGNESIUM	0.81	LB. TON	0.400	0.040	0.400	0.008S	0.000C		E6 TONS	0.36	0.029	0.0
SECONDARY LEAD - POT FURNACE	0.82	LB/TON	6.780	0.680	6.780	0.035S	0.016S		E6 TONS	0.017	0.0061	0.0028
	0.68	LB/TON	1.360	0.041	1.360	0.024S	0.032C		E6 TONS	0.065	0.016	0.024

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS			T N 1985	TONS/YEAR T-S-N 1985	I - E / E N S
			1000 TONS/YEAR	T UE 1985	T S 1985			
BLR >250 E6 BTU/HR	43153.	2250.	1125.	12632.	2106.	1616.	490000.	0.500
CEMENT PLANTS	18749.	9548.	7161.	10464.	7179.	7173.	5200.	0.297
IRON AND STEEL - BLAST FURNACE	10336.	80.1	57.7	5769.	103.	103.	0.0	0.000
STONE QUARRYING AND PROCESSING	10101.	186.	92.9	3798.	247.	156.	91100.	0.591
ASPHALT BATCHING	7826.	131.	120.	4800.	154.	129.	25000.	0.734
BLR 10-250 E6 BTU/HR	7255.	1197.	599.	3157.	1276.	856.	419000.	0.620
LIME PROCESSING	3891.	40.0	20.0	1194.	65.2	22.7	42400.	0.940
WOOD PULPING KRAFT	3700.	93.5	64.5	2269.	105.	105.	0.0	0.000
IRON & STEEL - BOF	3020.	8.3	6.0	1469.	10.6	10.6	0.0	0.000
MIXED FUEL BOILERS - COAL & REFUSE	2879.	0.23	0.23	16.6	39.3	28.9	10400.	0.268
BRICK & RELATED CLAY PRODUCTS	2367.	39.6	26.5	1249.	50.2	37.8	12400.	0.523
GRAIN HANDLING - TRANSFER	2280.	191.	120.	1238.	221.	130.	90600.	0.897
PLYWOOD - VENEER	1814.	42.9	21.5	709.	55.0	32.4	22600.	0.675
IRON AND STEEL - SINTERING	1697.	15.7	11.3	947.	20.2	14.0	6200.	0.700
WOOD WASTE BOILERS	1464.	142.	71.1	650.	160.	79.4	80800.	0.907
CERAMIC CLAY	1384.	15.3	10.2	653.	21.7	17.5	4100.	0.362
PRIMARY ZINC SMELTERS	1267.	2.1	1.3	575.	2.3	2.0	240.	0.258
BOILERS .3-10 MM BTU/HR	1260.	427.	521.	521.	1260.	663.	597000.	0.808
COAL CLEANING - THERMAL DRYING	1002.	16.1	8.0	388.	18.6	11.1	7400.	0.709
GYP SUM	886.	9.6	6.8	592.	10.2	7.5	2700.	0.800

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					T N 1985	T S 1985	T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985					
IRON & STEEL - EAF	809.	74.2	53.4	337.	70.1	61.4	8600.	0.520		
SODIUM CARBONATE - NATURAL	764.	2.9	1.6	124.	9.8	4.8	5000.	0.612		
GRAIN HANDLING - PROCESSING	684.	212.	134.	371.	246.	135.	111000.	0.986		
GRAIN HANDLING - SCREENING	684.	158.	99.6	371.	184.	103.	80700.	0.963		
FLY ASH SINTERING	621.	1.3	0.89	243.	2.3	1.3	990.	0.725		
PRIMARY COPPER	557.	38.8	24.8	265.	52.2	25.7	26400.	0.968		
PRIMARY ALUMINUM SMELTERS	523.	16.1	10.4	165.	33.1	17.5	15600.	0.691		
PHOSPHATE ROCK - DRYING/HANDLING	377.	6.5	3.2	134.	9.2	5.4	3700.	0.641		
FERROALLOY - SUBMERGED ARC FURNACE	372.	16.0	11.5	230.	18.6	12.9	5600.	0.800		
PRIMARY LEAD SMELTERS	272.	1.2	0.64	164.	1.1	0.80	250.	0.611		
MUNICIPAL INCINERATION	262.	41.9	25.5	109.	36.8	33.2	3600.	0.322		
VEGETABLE OIL PRODUCTION	240.	25.9	18.6	136.	32.9	19.7	13100.	0.927		
STEEL FOUNDRIES	237.	29.0	20.9	98.7	50.2	22.3	27900.	0.953		
PETROLEUM REFINRY FCCU	234.	42.2	29.1	107.	38.1	34.4	3600.	0.412		
FERTILIZER - AMMONIUM SULFATE	233.	7.9	4.4	42.8	23.8	13.9	9900.	0.510		
HYDROFLUORIC ACID	229.	7.7	4.2	34.7	11.5	11.5	0.0	0.000		
CARBON BLACK - FURNACE PROCESS	215.	2.4	1.3	92.6	3.0	2.5	500.	0.290		
BOILERS < 3 MM BTU/HR	191.	144.	115.	115.	191.	115.	76300.	1.000		
COKE OVENS - BY PRODUCT	189.	172.	124.	124.	189.	130.	59600.	0.912		
MIXED FUEL BOILERS - OIL & REFUSE	184.	0.052	0.052	1.1	9.1	1.9	7100.	0.796		

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T S N 1985	T N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985			
CHARCOAL								
FERTILIZER - DAP	181.	6.6	3.6	65.4	10.0	5200.	4.8	0.821
SEC ALUMINUM - REVERB FURNACE	176.	4.9	2.7	63.0	7.6	2600.	5.0	0.535
IRON AND STEEL - SCARFING	167.	2.8	1.8	73.1	4.1	1800.	2.3	0.800
FEED MILLING - OTHER	152.	5.4	3.9	84.9	7.0	2400.	4.6	0.783
DETERGENT	151.	11.0	7.8	75.9	15.5	7300.	8.2	0.951
GRAIN HANDLING - DRYING	143.	1.7	1.7	101.	2.4	480.	1.9	0.700
MINERAL WOOL	137.	15.1	9.5	74.2	17.5	7300.	10.2	0.922
SLUDGE INCINERATION	135.	14.8	10.4	79.1	17.7	1000.	16.6	0.150
INDUSTRIAL/COMMERCIAL INCINERATION	122.	1.5	0.98	23.4	2.3	0.0	2.3	-0.000
FERTILIZER - NITRATES	114.	40.1	24.4	24.4	114.	88400.	25.3	0.990
EXPLOSIVES - HIGH	101.	6.6	3.6	28.3	13.1	7900.	5.1	0.845
SECONDARY COPPER - SMELTING	94.4	1.2	0.65	21.1	2.9	290.	2.6	0.129
SECONDARY LEAD - REVERB	92.2	2.6	1.7	41.5	3.8	1800.	1.9	0.903
SECONDARY COPPER - HANDLING	92.0	1.6	1.2	51.0	1.4	20.0	1.3	0.160
PHOSPHORIC ACID - THERMAL PROCESS	91.2	2.0	1.3	41.1	2.9	1300.	1.5	0.872
POLYVINYL CHLORIDE	86.7	1.3	0.70	41.5	1.5	720.	0.75	0.941
GAS TURBINE ENGINES ELECTRIC UTILITIES	83.3	3.6	3.6	39.2	7.6	3500.	4.0	0.890
COTTON GINNING	82.3	22.3	17.8	17.8	82.3	64500.	17.4	1.000
FEED MILLING - ALFALFA DEHYDR.	73.2	11.3	6.5	37.6	12.8	4700.	8.0	0.770
	71.9	2.1	1.5	36.2	3.0	1200.	1.7	0.879

* GAS TURBINE ENGINES ELECTRIC UTILITIES

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	Y U 1985	T A 1975	EMISSIONS				T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
			Y E 1985	1000 TRNS/YEAR T UE 1985	T S 1985	T N 1985			
PHOSPHATE ROCK - CALCINING	67.9	1.1	0.55	22.9	1.6	1.0	620.	0.583	
SUGAR CANE - BAGASSE BURNING	66.4	9.7	4.9	28.9	11.2	8.6	2500.	0.405	
CASTABLE REFRACTORY	59.9	0.82	0.55	26.3	1.3	1.2	90.0	0.132	
ANIMAL FEED DEFLUORINATION	56.2	0.41	0.25	33.8	0.41	0.25	160.	0.986	
FIBERGLASS MFG. - WOOL PRODUCTS	55.0	3.3	1.2	13.7	4.9	4.9	0.0	0.000	
FIBERGLASS MFG. - TEXTILE PRODUCTS	48.2	0.50	0.19	5.7	1.6	0.93	660.	0.475	
SAND AND GRAVEL PROCESSING	45.7	45.7	22.8	22.8	45.7	24.0	21600.	0.950	
WHISKEY	43.2	17.3	11.8	18.4	27.6	13.0	14600.	0.922	
CAST IRON FOUNDRY - ELEC. FURN.	40.0	16.9	12.2	12.2	40.0	12.5	27500.	0.990	
INTERNAL COMB ENGS DIESEL DUAL FUEL	36.1	28.2	22.5	22.5	36.1	34.1	2000.	0.148	
GLASS - SODALIME	35.3	26.0	17.4	18.5	33.3	17.6	15700.	0.989	
PHOSPHATE ROCK - GRINDING	34.5	11.4	5.7	12.1	16.2	5.7	10500.	0.998	
DIRECT FIRING OF MEATS	34.0	25.5	12.8	12.8	34.0	14.5	19500.	0.920	
WOOD PULPING SULFITE	31.8	3.5	2.4	19.5	4.0	4.0	0.0	0.000	
BEER PROCESSING	31.3	6.1	3.7	9.5	12.0	4.7	7200.	0.871	
SYNTHETIC FIBER - NYLON	30.6	0.94	0.52	5.1	3.1	1.8	1300.	0.510	
ASPHALT SATURATOR	25.8	3.8	2.2	12.0	4.7	2.3	2300.	0.945	
SYNTHETIC FIBER - DACRON	24.9	1.2	0.68	3.0	5.6	1.8	3800.	0.778	
CONCRETE BATCHING	21.9	16.0	10.7	10.9	21.5	11.8	9600.	0.898	
DEEP FAT FRYING	19.4	7.6	5.5	9.2	11.6	5.6	6000.	0.983	

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				TONS/YEAR T S N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
SECONDARY LEAD - BLAST	18.7	0.22	0.17	10.4	0.20	0.20	6.1	0.160
STARCH	16.9	3.5	1.9	7.8	4.2	2.0	2200.	0.990
SYNTHETIC RESINS - POLYESTER	11.7	1.4	0.78	1.3	6.8	1.3	5500.	0.915
SECONDARY ZINC - DISTILLATION	10.5	0.42	0.27	4.7	0.62	0.49	120.	0.373
BRASS & BRONZE SMELTING	10.5	0.49	0.31	6.7	0.38	0.33	40.0	0.767
CLAY SINTERING	9.8	0.71	0.48	5.2	0.91	0.48	420.	0.989
FRIT MANUFACTURING	8.2	1.9	1.3	4.0	2.7	1.7	940.	0.693
POLYPROPYLENE	7.6	1.7	1.6	1.8	6.7	1.7	5000.	0.989
PERLITE	7.6	1.2	0.81	3.9	1.6	0.96	600.	0.807
ASPHALT BLOWING	7.4	1.7	0.97	3.5	2.1	1.0	1000.	0.964
LEAD ACID BATTERY	6.4	0.97	0.58	2.4	1.6	0.59	990.	0.996
* GAS TURBINE ENGINES GAS PIPELINE	5.4	2.2	1.8	1.8	5.4	1.8	3600.	1.000
SEC ALUMINUM - SWEAT FURNACE	5.0	0.76	0.49	2.2	1.1	0.65	450.	0.731
COFFEE ROASTING	4.8	0.52	0.31	2.9	0.52	0.43	90.0	0.446
S8AP	3.2	0.18	0.099	1.8	0.18	0.10	70.0	0.964
PET REF - PROG GAS COMB	2.9	1.9	1.3	1.3	2.9	1.6	1300.	0.850
SECONDARY ZINC - SWEATING	2.8	0.32	0.21	1.3	0.46	0.26	190.	0.774
PAINT MANUFACTURING	2.7	2.0	0.68	0.68	2.7	0.68	1900.	0.999
PULPB8ARD	2.0	1.7	1.2	1.2	2.0	1.3	700.	0.854
FERTILIZER GTSP STORAGE	1.5	0.50	0.27	0.54	0.75	0.28	460.	0.980

PARTICULATES

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				TONS/YEAR T-S-N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
MINING/MILLING LEAD ORE	1.2	1.2	0.60	0.60	1.2	0.90	290.	0.499
AUTOBODY INCINERATION	1.0	0.26	0.16	0.16	0.99	0.39	600.	0.726
STYRENE - BUTADIENE RUBBER	0.75	0.62	0.60	0.60	0.75	0.62	120.	0.829
GLASS - 8PAL	0.52	0.41	0.27	0.27	0.52	0.28	240.	0.990
SMOKED MEAT	0.51	0.44	0.26	0.26	0.51	0.35	160.	0.667
PATHOLOGICAL INCINERATION	0.37	0.10	0.062	0.17	0.12	0.091	20.0	0.500
* BRICKARD HEATERS	0.27	0.21	0.14	0.14	0.27	0.14	120.	1.000
FISH MEAL PROCESSING	0.058	0.058	0.054	0.054	0.058	0.054	4.2	0.900
SEC MAGNESIUM	0.056	0.049	0.032	0.032	0.056	0.034	20.0	0.900
SECONDARY LEAD - PBT FURNACE	0.041	0.030	0.023	0.023	0.041	0.023	10.0	0.970

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PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES		UNITS/YR	INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N	UNCOUNT E U	DECIMAL/YR P D		A 1975	B 1985	C 1985
CEMENT PLANTS										
EXIST=	0.90	LB/TON	206.000	0.450	301.000	0.025S	0.030C	103.	25.8	35.4
NEW=	0.90		0.640							
BLR >250 E6 BTU/HR										
EXIST=	0.58	LB/E6 BTU	0.277	0.050	3.110	0.050S	0.055C	28011.	14006.	19836.
NEW=	0.58		0.100							
BLR 10-250 E6 BTU/HR										
EXIST=	0.32	LB/E6 BTU	0.383	0.127	2.020	0.050S	0.014C	19534.	9767.	2914.
NEW=	0.32		0.334							
BOILERS >3-10 MM BTU/HR										
EXIST=	0.25	LB/E6 BTU	0.250	0.048	0.250	0.037S	0.043C	26471.	9794.	13857.
NEW=	0.25		0.160							
GRAIN HANDLING - PROCESSING										
EXIST=	0.82	LB/TON	2.160	0.030	6.000	0.037S	0.015C	240.	88.7	38.5
NEW=	0.82		1.940							
GRAIN HANDLING - TRANSFER										
EXIST=	0.82	LB/TON	1.940	0.200	20.000	0.037S	0.015C	240.	88.7	38.5
NEW=	0.82		0.379							
STONE QUARRYING AND PROCESSING										
EXIST=	0.80	LB/TON	0.379	0.155	15.500	0.050S	0.033S	1225.	613.	404.
NEW=	0.80		4.900							
COKE OVENS - BY PRODUCT										
EXIST=	0.93	LB/TON	4.900	0.430	4.900	0.026S	0.010S	75.5	21.1	7.5
NEW=	0.93		1.610							
GRAIN HANDLING - SCREENING										
EXIST=	0.82	LB/TON	1.610	0.060	6.000	0.037S	0.015C	240.	88.7	38.5
NEW=	0.82		0.039							
BOILERS <3 MM BTU/HR										
EXIST=	0.30	LB/E6 BTU	0.039	0.000	0.039	0.020S	0.029C	24572.	4914.	8131.
NEW=	0.30		3.010							
WASTE BOILERS										
EXIST=	0.58	LB/TON	3.010	0.280	27.500	0.050S	0.012C	163.	81.4	20.6
NEW=	0.58		0.376							
ASPHALT BATCHING										
EXIST=	0.47	LB/TON	0.376	0.045	15.000	0.008S	0.050S	1480.	118.	740.
NEW=	0.47		0.169							
PULPING KRAFT										
EXIST=	0.98	LB/TON	5.630	5.630	198.000	0.031S	0.012C	33.9	10.5	4.3
NEW=	0.98		1.500							
IRON AND STEEL - BLAST FURNACE										
EXIST=	0.90	LB/TON	1.500	1.500	150.000	0.028S	0.029S	119.	33.2	34.4
NEW=	0.90		4.490							
IRON & STEEL - EAF										
EXIST=	0.90	LB/TON	4.490	0.480	28.300	0.028S	0.073S	36.7	10.3	26.8
NEW=	0.90		1.000							
SAND AND GRAVEL PROCESSING										
EXIST=	0.80	LB/TON	0.100	0.005	0.100	0.050S	0.000S	1142.	571.	0.0
NEW=	0.80		0.004							
PLYWOOD - VENEER										
EXIST=	0.95	LB/TON	0.004	0.001	0.132	0.050S	0.025C	22600.	11300.	6330.
NEW=	0.95		0.066							
PETROLEUM REFINRY FCCU										
EXIST=	0.85	LB/TON	0.066	0.010	0.242	0.031S	0.042C	1506.	467.	766.
NEW=	0.85		0.017							

PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCNT E	GROWTH RATES DECIMAL/YR			UNITS/YR	CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E	EMISSION N		P	B	P		A 1975	B 1985	
MUNICIPAL INCINERATION EXISTING	0.56	LB/TON	4.600	0.990	19.700	0.039S	0.046S	0.046S	E6 TONS	32.5	12.7	14.9
NEW	0.56		1.460									
INDUSTRIAL/COMMERCIAL INCINERATION												
0.38		LB/TON	6.470	0.065	6.470	0.039S	0.110C	0.110C	E6 TONS	32.6	12.7	60.0
LIME PROCESSING	0.90	LB/TON	3.400	0.203	203.000	0.050S	0.050C	0.050C	E6 TONS	26.1	13.1	16.4
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	2.770	1.320	130.500	0.033S	0.027S	0.027S	E6 TONS	35.7	11.8	9.6
PRIMARY COPPER	0.85	LB/TON	37.900	1.220	405.000	0.036S	0.030C	0.030C	E6 TONS	2.4	0.87	0.83
STEEL FOUNDRIES	0.90	LB/TON	2.200	0.104	10.400	0.028S	0.073S	0.073S	E6 TONS	29.3	8.2	21.4
INTERNAL COMB ENGS DIESEL FUEL	0.58	LB/TON	5.410	4.610	5.410	0.020S	0.028S	0.028S	E6 TONS	18.0	3.6	5.0
GLASS - SODALIME	0.80	LB/TON	1.890	0.020	2.000	0.033S	0.028S	0.028S	E6 TONS	34.4	11.4	9.6
VEGETABLE OIL PRODUCTION	0.92	LB/TON	8.630	0.630	63.000	0.028S	0.027S	0.027S	E6 TONS	6.5	1.8	1.8
DIRECT FIRING OF HEATS	0.62	LB/TON	2445.000	195.600	2445.000	0.050S	0.033S	0.033S	E6 TONS	0.034	0.017	0.011
GAS TURBINE ENGINES ELECTRIC UTILITIES	0.22	LB/TON	3.740	0.000	3.740	0.020S	0.270S	0.270S	E6 TONS	54.1	10.8	146.
WHISKEY	0.95	LB/PRD UNIT	27.900	2.180	43.600	0.032S	0.060S	0.060S	E6 PU	1.3	0.42	0.78
CAST IRON FOUNDRY - ELEC. FURN.	0.93	LB/TON	4.500	0.045	4.500	0.028S	0.136S	0.136S	E6 TONS	8.1	2.3	11.0
COAL CLEANING - THERMAL DRYING	0.59	LB/TON	0.410	0.099	19.800	0.050S	0.029S	0.029S	E6 TONS	133.	66.5	38.6
EXISTING	0.59		0.340									
NEW												
PRIMARY ALUMINUM SMELTERS	0.92	LB/TON	5.920	1.800	92.000	0.035S	0.075C	0.075C	E6 TONS	6.0	2.1	6.4
FERRALLOY - SUBMERGED ARC FURNACE	0.90	LB/TON	22.800	4.560	456.000	0.028S	0.015C	0.015C	E6 TONS	1.6	0.44	0.25
CONCRETE BATCHING	1.00	LB/TON	0.098	0.010	0.100	0.033S	0.030C	0.030C	E6 TONS	327.	108.	112.
IRON AND STEEL - SINTERING	0.90	LB/TON	0.500	0.150	42.000	0.028S	0.029S	0.029S	E6 TONS	69.6	19.5	20.2
CERAMIC CLAY	0.80	LB/TON	2.750	1.755	175.500	0.033S	0.042S	0.042S	E6 TONS	13.9	4.6	5.8
GRAIN HANDLING - DRYING	0.82	LB/TON	0.770	0.060	6.000	0.037S	0.015C	0.015C	E6 TONS	47.9	17.7	7.7

PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCERT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			ALLOWABLE E	S		N	P	B	A	B	C
									1975	1985	1985
PINERAL WOOL											
PHOSPHATE ROCK - GRINDING	0.82	LB/TON	4.270		3.630		0.029S	0.029S	8.4	2.5	1.7
COTTON GINNING	0.94	LB/TON	0.940		0.002		0.050S	0.043S	25.7	12.8	11.1
FEED MILLING - OTHER	1.00	LB/BALE	2.090		0.480		0.042S	0.013S	10.8	4.5	1.4
SUGAR CANE - BAGASSE BURNING	0.50	LB/TON	2.060		0.100		0.029S	0.035C	21.4	5.2	8.8
GYPSUM	0.75	LB/TON	3.700		2.200		0.050S	0.015S	7.0	3.5	1.0
IRON & STEEL - RBF	0.80	LB/TON	1.510		0.302		0.029S	0.006S	15.9	4.7	0.91
EXIST. NEW.	0.90	LB/TON	0.208		0.150		0.028S	0.048S	88.9	24.9	42.7
FERTILIZER - AMMONIUM SULFATE	0.84	LB/TON	2.040		1.000		0.045S	0.116C	9.3	4.2	18.5
HYDROFLUORIC ACID	0.98	LB/TON	35.000		35.000		0.045S	0.049S	0.45	0.20	0.22
DEEP FAT FRYING	0.81	LB/TON	7.130		0.119		0.028S	0.043C	2.6	0.74	1.4
FERTILIZER - NITRATES	0.77	LB/TON	1.640		0.254		0.045S	0.070C	10.5	4.7	10.2
CHARCOAL											
PHOSPHATE ROCK - DRYING/HANDLING	0.85	LB/TON	19.500		3.500		0.045S	0.043C	0.79	0.36	0.42
BEER PROCESSING	0.87	LB/TON	0.340		0.122		0.050S	0.041S	43.9	21.9	18.0
IRON AND STEEL - SCARFING	0.81	LB/TON	2.090		0.270		0.045S	0.070C	7.2	2.9	7.0
FERTILIZER - DAP	0.90	LB/TON	0.138		0.030		0.028S	0.029S	87.3	24.4	25.3
ASPHALT SATURATOR	0.89	LB/TON	3.530		1.640		0.045S	0.054S	3.1	1.4	1.7
POLYVINYL CHLORIDE	0.90	LB/TON	1.330		0.073		0.042S	0.025S	6.3	2.6	1.6
WOOD PULPING SULFITE	0.82	LB/TON	3.180		0.350		0.006S	0.078C	2.7	0.0055	3.1
STARCH	0.98	LB/TON	3.000		3.000		0.031S	0.012C	2.4	0.74	0.30
FIBERGLASS MFG.-WOOL PRODUCTS	0.83	LB/TON	2.000		0.020		0.045S	0.018C	4.3	1.9	0.83
	0.70	LB/TON	8.640		8.640		0.063S	0.042C	1.1	0.68	0.55

PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES			CAPACITY/PRODUCTION			C 1985
			ALLOWABLE E S	E N	UNCENT E U	P B	P C	UNITS/YR	A 1975	B 1985		
SODIUM CARBONATE - NATURAL	0.87	LB/TON	1.160	0.150	90.000	0.045S	0.130C	E6 TONS	5.8	2.6	13.8	
SEC ALUMINUM - REVERB FURNACE	0.82	LB/TON	4.800	0.960	195.000	0.036S	0.047S	E6 TONS	1.4	0.51	0.67	
SECONDARY COPPER - SMELTING	0.82	LB/TON	3.470	0.338	84.600	0.035S	0.037C	E6 TONS	1.8	0.64	0.82	
CARBON BLACK - FURNACE PROCESS	0.77	LB/TON	3.100	2.200	220.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56	
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	1.180	0.000	1.180	0.020S	0.145S	E6 TONS	4.4	0.88	6.4	
FEED MILLING - ALFALFA DEHYDR.	0.50	LB/TON	2.060	0.250	50.000	0.029S	0.035C	E6 TONS	4.1	1.2	1.7	
PRIMARY ZINC SMELTERS EXIST. NEW	0.83 0.83	LB/TON	3.860 2.250	1.670	1665.000	0.036S	0.035C	E6 TONS	1.3	0.47	0.53	
PAINT MANUFACTURING	0.83	LB/TON	1.000	0.001	1.000	0.067S	0.026C	E6 TONS	4.9	3.3	1.5	
SECONDARY COPPER - HANDLING	0.82	LB/TON	6.640	0.848	212.000	0.035S	0.037C	E6 TONS	0.73	0.25	0.32	
FRUIT MANUFACTURING	0.80	LB/TON	5.800	1.780	17.800	0.033S	0.037S	E6 TONS	0.84	0.28	0.31	
PET REF - PROC GAS COMB	0.85	LB/E6 BTU	20.000	3.000	20.000	0.031S	0.042C	E12 BTU	0.23	0.070	0.12	
PULPBOARD	0.98	LB/TON	0.096	0.014	0.096	0.031S	0.015C	E6 TONS	37.2	11.5	6.0	
DETERGENT	0.90	LB/TON	1.500	0.450	90.000	0.000S	0.035C	E6 TONS	2.5	0.0	1.0	
ASPHALT BLOWING	0.90	LB/TON	1.180	0.042	4.200	0.042S	0.025S	E6 TONS	3.1	1.3	0.79	
SECONDARY LEAD - REVERB EXIST. NEW	0.78 0.68 0.68	LB/TON	2.670 6.440 1.250	0.030 1.050	3.000 277.000	0.003S 0.024S	0.150C 0.032C	E6 TONS	1.6 0.71	0.048 0.17	4.9 0.26	
SLUDGE INCINERATION EXIST. NEW	0.50 0.50	LB/TON	5.000 1.600	1.600	119.000	0.033S	0.250S	E6 TONS	1.2	0.39	2.9	
SYNTHETIC RESINS - POLYESTER	0.68	LB/TON	4.100	0.350	7.000	0.045S	0.170C	E6 TONS	1.0	0.46	3.9	
FLY ASH SINTERING	0.86	LB/TON	0.400	0.110	110.000	0.033S	0.055C	E6 TONS	7.7	2.5	5.4	
PHOSPHORIC ACID - THERMAL PROCESS 0.81		LB/TON	2.270	0.134	134.000	0.045S	0.014C	E6 TONS	1.4	0.63	0.21	

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES			CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N	UNCENT E U	DECIMAL/YR P B	P C	UNITS/YR	1975 A	1985 B	1985 C
SYNTHETIC FIBER - DACRON	0.68	LB/TON	1.590	0.350	7.000	0.045S	0.164C	E6 TONS	2.3	1.0	8.2
PINING/MILLING LEAD BRE	0.92	LB/TON	4.170	2.090	4.170	0.050S	0.000	E6 TONS	0.62	0.31	0.0
EXPLOSIVES - HIGH	0.83	LB/TON	1.550	1.350	50.400	0.045S	0.094C	E6 TONS	1.8	0.83	2.7
PRIMARY LEAD SMELTERS EXIST.	0.99	LB/TON	3.060	1.190	790.000	0.036S	0.000	E6 TONS	0.76	0.28	0.0
NEW	0.85		3.060								
PERLITE	0.82	L/TON	4.350	0.840	21.000	0.029S	0.036S	E6 TONS	0.65	0.19	0.23
PHOSPHATE ROCK - CALCINING	0.90	LB/TON	0.960	0.400	40.000	0.050S	0.048S	E6 TONS	2.5	1.3	1.2
LEAD ACID BATTERY	0.76	LB/PRD UNIT	0.032	0.000	0.130	0.040S	0.050C	E6 PU	80.0	32.0	50.3
SYNTHETIC FIBER - NYLON	0.72	LB/TON	1.530	0.750	15.000	0.045S	0.127C	E6 TONS	1.7	0.77	4.0
CASTABLE REFRACTORY	0.80	LB/TON	5.320	4.620	254.000	0.033S	0.043C	E6 TONS	0.39	0.13	0.20
SEC ALUMINUM - SWEAT FURNACE	0.68	LB/TON	7.360	1.980	33.000	0.036S	0.047S	E6 TONS	0.30	0.11	0.14
CLAY SINTERING	0.80	LB/TON	2.410	0.026	26.000	0.033S	0.027S	E6 TONS	0.74	0.24	0.20
STYRENE - BUTADIENE RUBBER	0.75	LB/TON	0.700	0.120	0.700	0.003S	0.020C	E6 TONS	2.3	0.070	0.51
COFFEE ROASTING	0.85	LB/TON	0.794	0.440	7.300	0.040S	0.000S	E6 TONS	1.5	0.62	0.0
FIBERGLASS MFG.-TEXTILE PRODUCTS	0.70	LB/TON	2.780	1.460	84.000	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
FERTILIZER GTSP STORAGE	0.76	LB/TON	1.110	0.022	2.170	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
BRASS & BRONZE SMELTING EXIST.	0.80	LB/TON	3.250	0.280	70.000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
NEW	0.80		1.200								
SMOKED MEAT	0.81	LB/TON	0.300	0.100	0.300	0.040S	0.017S	E6 TONS	3.6	1.4	0.61
SECONDARY ZINC - DISTILLATION	0.82	LB/TON	2.710	1.700	46.000	0.035S	0.039C	E6 TONS	0.38	0.13	0.18
ANIMAL FEED DEFLUORINATION	0.90	LB/TON	4.570	0.063	625.000	0.040S	0.000S	E6 TONS	0.20	0.080	0.0
GLASS - OPAL	0.80	LB/TON	2.240	0.022	2.240	0.033S	0.028S	E6 TONS	0.46	0.15	0.13

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					T N 1985	TONS/YEAR T-S N 1985	I - E / E N S
	1000 TONS/YEAR			T S 1985				
	T U 1985	T A 1975	T E 1985					
CEMENT PLANTS								
BLR >250 E6 BTU/HR	18749.	9548.	7161.	10464.	7179.	7173.	5200.	0.297
BLR 10-250 E6 BTU/HR	43153.	2250.	1125.	12632.	2106.	1616.	490000.	0.500
BOILERS 3-10 MM BTU/HR	7255.	1197.	599.	3157.	1276.	856.	419000.	0.620
GRAIN HANDLING - PROCESSING	1260.	827.	521.	521.	1260.	663.	597000.	0.808
GRAIN HANDLING - TRANSFER	684.	212.	134.	371.	246.	135.	111000.	0.986
STONE QUARRYING AND PROCESSING	2280.	191.	120.	1238.	221.	130.	90600.	0.897
COKE OVENS - BY PRODUCT	10101.	186.	92.9	3798.	247.	156.	91100.	0.591
GRAIN HANDLING - SCREENING	183.	172.	124.	124.	189.	130.	59600.	0.912
BOILERS <0.3 MM BTU/HR	684.	158.	99.6	371.	184.	103.	80700.	0.963
WASTE BOILERS	191.	144.	115.	115.	191.	115.	76300.	1.000
ASPHALT BATCHING	1464.	142.	71.1	650.	160.	79.4	80800.	0.907
WOOD PULPING KRAFT	7826.	131.	120.	4800.	154.	129.	25000.	0.734
IRON AND STEEL - BLAST FURNACE	3706.	93.5	64.5	2269.	105.	105.	0.0	0.000
IRON & STEEL - EAF	10336.	80.1	57.7	5769.	103.	103.	0.0	0.000
SAND AND GRAVEL PROCESSING	809.	74.2	53.4	337.	70.1	61.4	8600.	0.520
PLYWOOD - VENEER	45.7	45.7	22.8	22.8	45.7	24.0	21600.	0.950
PETROLEUM REFINRY FCCU	1814.	42.9	21.5	709.	55.0	32.4	22600.	0.675
MUNICIPAL INCINERATION	234.	42.2	29.1	107.	38.1	34.4	3600.	0.412
INDUSTRIAL/COMMERCIAL INCINERATION	262.	41.9	25.5	109.	36.8	33.2	3600.	0.322
	114.	40.1	24.4	24.4	114.	25.3	8800.	0.990

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985		
LIME PROCESSING	3891.	40.0	20.0	11.4.	65.2	42400.	0.940
BRICK & RELATED CLAY PRODUCTS	2367.	39.6	26.5	12.9.	50.2	12400.	0.523
PRIMARY COPPER	557.	38.8	24.8	265.	52.2	26400.	0.968
STEEL FOUNDRIES	237.	29.0	20.9	98.7	50.2	27900.	0.953
INTERNAL COMB ENGS DIESEL DUALFUEL	36.1	28.2	22.5	22.5	36.1	2000.	0.148
GLASS - SODALINE	35.3	26.0	17.4	18.5	33.3	15700.	0.989
VEGETABLE OIL PRODUCTION	240.	25.9	18.6	136.	32.9	13100.	0.927
DIRECT FIRING OF HEATS	34.0	25.5	12.8	12.8	34.0	19500.	0.920
* GAS TURBINE ENGINES ELECTRIC UTILITIES	82.3	22.3	17.8	17.8	82.3	64500.	1.000
WHISKEY	43.2	17.3	11.8	18.4	27.6	14400.	0.922
CAST IRON FOUNDRY - ELEC. FURN.	40.0	16.9	12.2	12.2	40.0	27500.	0.990
COAL CLEANING - THERMAL DRYING	1002.	16.1	8.0	388.	18.6	7400.	0.709
PRIMARY ALUMINUM SHELTERS	523.	16.1	10.4	165.	33.1	15600.	0.691
FERRALLOY - SUBMERGED ARC FURNACE	372.	16.0	11.5	230.	18.6	5600.	0.800
CONCRETE BATCHING	21.9	16.0	10.7	10.9	21.5	9600.	0.898
IRON AND STEEL - SINTERING	1697.	15.7	11.3	947.	20.2	6200.	0.700
CERAMIC CLAY	1384.	15.3	10.2	653.	21.7	4100.	0.362
GRAIN HANDLING - DRYING	137.	15.1	9.5	74.2	17.5	7300.	0.922
MINERAL W88L	135.	14.8	10.4	79.1	17.7	1000.	0.150
PHOSPHATE ROCK - GRINDING	34.5	11.4	5.7	12.1	16.2	10500.	0.598

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SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

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PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FBR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				TONS/YEAR T - T S N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
SEC ALUMINUM - REVERB FURNACE 167.		2.8	1.8	73.1	4.1	2.3	1800.	0.800
SECONDARY COPPER - SMELTING 92.2		2.6	1.7	41.5	3.8	1.9	1800.	0.903
CARBON BLACK - FURNACE PROCESS 215.		2.4	1.3	92.6	3.0	2.5	500.	0.290
* GAS TURBINE ENGINES GAS PIPELINE 5.4		2.2	1.8	1.8	5.4	1.8	3600.	1.000
FEED MILLING - ALFALFA DEHYDR. 71.7		2.1	1.5	36.2	3.0	1.7	1200.	0.879
PRIMARY ZINC SMELTERS 1267.		2.1	1.3	575.	2.3	2.0	240.	0.258
PAINT MANUFACTURING 2.7		2.0	0.68	0.68	2.7	0.68	1900.	0.999
SECONDARY COPPER - HANDLING 91.2		2.0	1.3	41.1	2.9	1.5	1300.	0.872
FRIT MANUFACTURING 8.2		1.9	1.3	4.0	2.7	1.7	940.	0.693
PET REF - PROC GAS COND 2.9		1.9	1.3	1.3	2.9	1.6	1300.	0.850
PULPBOARD 2.0		1.7	1.2	1.2	2.0	1.3	700.	0.854
DETERGENT 143.		1.7	1.7	101.	2.4	1.9	480.	0.700
ASPHALT BLOWING 7.4		1.7	0.97	3.5	2.1	1.0	1000.	0.964
POLYPROPYLENE 7.6		1.7	1.6	1.8	6.7	1.7	5000.	0.989
SECONDARY LEAD - REVERB 92.0		1.6	1.2	51.0	1.4	1.3	20.0	0.160
SLUDGE INCINERATION 122.		1.5	0.98	23.4	2.3	2.3	0.0	-0.000
SYNTHETIC RESINS - POLYESTER 11.7		1.4	0.78	1.3	6.8	1.3	5500.	0.915
FLY ASH SINTERING 621.		1.3	0.89	243.	2.3	1.3	990.	0.725
PHOSPHORIC ACID - THERMAL PROCESS 86.7		1.3	0.70	41.5	1.5	0.75	720.	0.941
SYNTHETIC FIBER - DACRON 24.9		1.2	0.68	3.0	5.6	1.8	3800.	0.778

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				T N 1985	T S N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985			
MINING/MILLING LEAD ORE	1.2	1.2	0.60	0.60	1.2	0.90	290.	0.499	
EXPLOSIVES - HIGH	94.4	1.2	0.65	21.1	2.9	2.6	290.	0.129	
PRIMARY LEAD SMELTERS	272.	1.2	0.64	164.	1.1	0.80	250.	0.611	
PERLITE	7.6	1.2	0.81	3.9	1.6	0.96	600.	0.807	
PHOSPHATE ROCK - CALCINING	67.9	1.1	0.55	22.9	1.6	1.0	620.	0.583	
LEAD ACID BATTERY	6.4	0.97	0.58	2.4	1.6	0.59	990.	0.996	
SYNTHETIC FIBER - NYLON	30.6	0.94	0.52	5.1	3.1	1.8	1300.	0.510	
CASTABLE REFRACTORY	59.9	0.82	0.55	26.3	1.3	1.2	90.0	0.132	
SEC ALUMINUM - SWEAT FURNACE	5.0	0.76	0.49	2.2	1.1	0.65	450.	0.731	
CLAY SINTERING	9.2	0.71	0.48	5.2	0.91	0.48	420.	0.989	
STYRENE - BUTADIENE RUBBER	0.75	0.62	0.60	0.60	0.75	0.62	120.	0.829	
COFFEE ROASTING	4.8	0.52	0.31	2.9	0.52	0.43	90.0	0.446	
FIBERGLASS MFG.-TEXTILE PRODUCTS	48.2	0.50	0.19	5.7	1.6	0.93	660.	0.475	
FERTILIZER GTSP STORAGE	1.5	0.50	0.27	0.54	0.75	0.28	460.	0.980	
BRASS & BRONZE SMELTING	10.7	0.49	0.31	6.7	0.38	0.33	40.0	0.767	
SMOKED MEAT	0.51	0.44	0.26	0.26	0.51	0.35	160.	0.667	
SECONDARY ZINC - DISTILLATION	10.5	0.42	0.27	4.7	0.62	0.49	120.	0.373	
ANIMAL FEED DEFLUBRINATION	56.2	0.41	0.25	33.8	0.41	0.25	160.	0.986	
GLASS - 6PAL	0.52	0.41	0.27	0.27	0.52	0.28	240.	0.990	
SECONDARY ZINC - SWEATING	2.8	0.32	0.21	1.3	0.46	0.26	190.	0.774	

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS			T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985			
AUTOMOBILE INCINERATION	1.0	0.26	0.16	0.16	0.99	0.39	600.	0.726
MIXED FUEL BOILERS - CSAL & REFUSE 2879.	0.23	0.23	0.23	16.6	39.3	28.9	10400.	0.268
SECONDARY LEAD - BLAST 18.7	0.22	0.22	0.17	10.4	0.20	0.20	6.1	0.160
* ORCHARD HEATERS	0.27	0.21	0.14	0.14	0.27	0.14	120.	1.000
SOAP	3.2	0.18	0.099	1.8	0.18	0.10	70.0	0.964
PATHOLOGICAL INCINERATION 0.37	0.10	0.10	0.062	0.17	0.12	0.091	20.0	0.500
FISH MEAL PROCESSING	0.058	0.058	0.054	0.054	0.058	0.054	4.2	0.900
MIXED FUEL BOILERS - OIL & REFUSE 184.	0.052	0.052	0.052	1.1	9.1	1.9	7100.	0.796
SEC MAGNESIUM	0.056	0.049	0.032	0.032	0.056	0.034	20.0	0.900
SECONDARY LEAD - POT FURNACE 0.041	0.030	0.030	0.023	0.023	0.041	0.023	10.0	0.970

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PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	UNCENT E U	GROWTH RATES DECIMAL/YR			UNITS/YR	INDUSTRY CAPACITY/PRODUCTION		
					E	N	P		A	B	C
PRIMARY COPPER	0.85	LB/TON	37.900	405.000	1.220	0.0365	0.030C	E6 TONS	2.4	0.87	0.83
INDUSTRIAL/COMMERCIAL INCINERATION	0.38	LB/TON	6.470	6.470	0.065	0.0395	0.110C	E6 TONS	32.6	12.7	60.0
SAND AND GRAVEL PROCESSING	0.80	LB/TON	0.100	0.100	0.005	0.0505	0.000S	E6 TONS	1142.	571.	0.0
INTERNAL COMB ENGS DIESEL DUALFUEL	0.58	LB/TON	5.410	5.410	4.610	0.0205	0.028S	E6 TONS	18.0	3.6	5.0
FLYW880 - VENEER	0.95	LB/TON	0.004	0.132	0.001	0.0505	0.025C	E6 TONS	22600.	11300.	6330.
STEEL FOUNDRIES	0.90	LB/TON	2.200	10.400	0.104	0.0285	0.073S	E6 TONS	29.3	8.2	21.4
LIME PROCESSING	0.90	LB/TON	3.400	203.000	0.203	0.0505	0.050C	E6 TONS	26.1	13.1	16.4
VEGETABLE OIL PRODUCTION	0.92	LB/TON	8.630	63.000	0.630	0.0285	0.027S	E6 TONS	6.5	1.8	1.8
GAS TURBINE ENGINES ELECTRIC UTILITIES	0.22	LB/TON	3.740	3.740	0.000	0.0205	0.270S	E6 TONS	54.1	10.8	146.
GLASS - SODALINE	0.80	LB/TON	1.890	2.000	0.020	0.0335	0.028S	E6 TONS	34.4	11.4	9.6
DIRECT FIRING OF HEATS	0.62	LB/TON	2445.000	2445.000	195.600	0.0505	0.0335	E6 TONS	0.034	0.017	0.011
CAST IRON FOUNDRY - ELEC. FURN.	0.93	LB/TON	4.500	4.500	0.045	0.0285	0.136S	E6 TONS	8.1	2.3	11.0
WHISKEY	0.95	LB/PRD UNIT	27.900	43.600	2.180	0.0325	0.060S	E6 PU	1.3	0.42	0.78
FERRALLLOY - SUBMERGED ARC FURNACE	0.90	LB/TON	22.800	456.000	4.560	0.0285	0.015C	E6 TONS	1.6	0.44	0.25
IRON AND STEEL - SINTERING	0.90	LB/TON	0.500	42.000	0.150	0.0285	0.029S	E6 TONS	69.6	19.5	20.2
CONCRETE BATCHING	1.00	LB/TON	0.098	0.100	0.010	0.0335	0.030C	E6 TONS	327.	108.	112.
PRIMARY ALUMINUM SMELTERS	0.92	LB/TON	5.820	92.000	1.800	0.0355	0.075C	E6 TONS	6.0	2.1	6.4
MINERAL W88L	0.82	LB/TON	4.270	32.400	3.630	0.0295	0.020S	E6 TONS	8.4	2.5	1.7
CERAMIC CLAY	0.80	LB/TON	2.750	175.500	1.755	0.0335	0.042S	E6 TONS	13.9	4.6	5.8
GRAIN HANDLING - DRYING	0.82	LB/TON	0.770	6.000	0.060	0.0375	0.015C	E6 TONS	47.9	17.7	7.7
COAL CLEANING - THERMAL DRYING	0.59	LB/TON	0.410	19.800	0.099	0.0505	0.029S	E6 TONS	133.	66.5	38.6
EXIST. NEW			0.340								

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCENT E	GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	EMISSION E N		P	D	P	A 1975	B 1985	
FEED MILLING - OTHER	0.50	LB/TON	2.060	0.100	20.000	0.029S	0.035C	E6 TONS	21.4	6.2	8.8
GYPSUM	0.80	LB/TON	1.510	0.302	131.700	0.029S	0.006S	E6 TONS	15.9	4.7	0.91
COTTON GINNING	1.00	LB/BALE	2.090	0.480	12.000	0.042S	0.013S	E6 BALE	10.8	4.5	1.4
IRON & STEEL - BOP EXISTING	0.90	LB/TON	0.208	0.150	51.000	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW	0.90		0.150								
PHOSPHATE ROCK - GRINDING	0.94	LB/TON	0.940	0.002	2.000	0.050S	0.043S	E6 TONS	25.7	12.8	11.1
DEEP FAT FRYING	0.81	LB/TON	7.130	0.119	11.900	0.028S	0.043C	E6 TONS	2.6	0.74	1.4
SUGAR CANE - BAGASSE BURNING	0.75	LB/TON	3.700	2.200	22.000	0.050S	0.015S	E6 TONS	7.0	3.5	1.0
FERTILIZER - AMMONIUM SULFATE	0.84	LB/TON	2.040	1.000	20.000	0.045S	0.116C	E6 TONS	9.3	4.2	18.5
HYDROFLUORIC ACID	0.98	LB/TON	35.000	35.000	700.000	0.045S	0.049S	E6 TONS	0.45	0.20	0.22
IRON AND STEEL - SCARFING	0.90	LB/TON	0.138	0.030	3.000	0.028S	0.029S	E6 TONS	87.3	24.4	25.3
BEER PROCESSING	0.81	LB/TON	2.090	0.270	5.450	0.040S	0.070C	E6 TONS	7.2	2.9	7.0
FERTILIZER - NITRATES	0.77	LB/TON	1.640	0.254	12.720	0.045S	0.070C	E6 TONS	10.5	4.7	10.2
CHARCOAL	0.85	LB/TON	19.500	3.500	352.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42
POLYVINYL CHLORIDE	0.82	LB/TON	3.180	0.350	35.000	0.000S	0.078C	E6 TONS	2.7	0.0055	3.1
PHOSPHATE ROCK - DRYING/HANDLING	0.87	LB/TON	0.340	0.122	14.000	0.050S	0.041S	E6 TONS	43.9	21.9	18.0
FERTILIZER - DAP	0.89	LB/TON	3.530	1.640	82.000	0.045S	0.054S	E6 TONS	3.1	1.4	1.7
WOOD PULPING SULFITE	0.98	LB/TON	3.000	3.000	24.000	0.031S	0.012C	E6 TONS	2.4	0.74	0.30
ASPHALT SATURATOR	0.90	LB/TON	1.330	0.073	7.300	0.042S	0.025S	E6 TONS	6.3	2.6	1.6
STARCH	0.83	LB/TON	2.000	0.020	8.000	0.045S	0.018C	E6 TONS	4.3	1.9	0.83
SEC ALUMINUM - REVERB FURNACE	0.82	LB/TON	4.800	0.960	195.000	0.036S	0.047S	E6 TONS	1.4	0.51	0.67
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	1.180	0.000	1.180	0.020S	0.145S	E6 TONS	4.4	0.88	6.4

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E	EMISSION N		P	B	C	A	B	C
			S		U				1975	1985	1985
SECONDARY COPPER - SMELTING	0.82	LB/TON	3.470	0.338	84.600	0.035S	0.037C	E6 TONS	1.8	0.64	0.82
DETERGENT	0.90	LB/TON	1.500	0.450	90.000	0.000S	0.035C	E6 TONS	2.5	0.0	1.0
POLYPROPYLENE	0.78	LB/TON	2.670	0.030	3.000	0.003S	0.150C	E6 TONS	1.6	0.048	4.9
SODIUM CARBONATE - NATURAL	0.57	LB/TON	1.160	0.450	90.000	0.045S	0.130C	E6 TONS	5.8	2.6	13.8
FEED MILLING - ALFALFA DEHYDR.	0.50	LB/TON	2.060	0.250	50.000	0.029S	0.035C	E6 TONS	4.1	1.2	1.7
PRIMARY ZINC SMELTERS EXIST=	0.83	LB/TON	3.860	1.670	1665.000	0.036S	0.035C	E6 TONS	1.3	0.47	0.53
NEW=	0.83		2.250								
PET REF - PROC GAS COMB	0.85	LB/E6 BTU	20.000	3.000	20.000	0.031S	0.042C	E12 BTU	0.23	0.070	0.12
CARBON BLACK - FURNACE PROCESS	0.77	LB/TON	3.100	2.200	220.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56
FRIT MANUFACTURING	0.80	LB/TON	5.800	1.780	17.800	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
SECONDARY COPPER - HANDLING	0.92	LB/TON	6.640	0.848	212.000	0.035S	0.037C	E6 TONS	0.73	0.25	0.32
FIBERGLASS MFG.--*89L PRODUCTS	0.70	LB/TON	8.640	8.640	96.000	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
PULPBARD	0.98	LB/TON	0.096	0.014	0.096	0.031S	0.015C	E6 TONS	37.2	11.5	6.0
SECONDARY LEAD - REVERB	0.68	LB/TON	6.440	1.050	277.000	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
EXIST=	0.68		1.250								
NEW=	0.68										
SLUDGE INCINERATION	0.50	LB/TON	5.000	1.600	119.000	0.033S	0.250S	E6 TONS	1.2	0.39	2.9
EXIST=	0.50		1.600								
NEW=	0.50										
ASPHALT BLOWING	0.90	LB/TON	1.180	0.042	4.200	0.042S	0.025S	E6 TONS	3.1	1.3	0.79
FLY ASH SINTERING	0.86	LB/TON	0.400	0.110	110.000	0.033S	0.055C	E6 TONS	7.7	2.5	5.4
PEARLITE	0.82	LB/TON	4.350	0.840	21.000	0.029S	0.036S	E6 TONS	0.65	0.19	0.23
SYNTHETIC RESINS - POLYESTER	0.68	LB/TON	4.100	0.350	7.000	0.045S	0.170C	E6 TONS	1.0	0.46	3.9
PHOSPHORIC ACID - THERMAL PROCESS	0.81	LB/TON	2.270	0.134	134.000	0.045S	0.014C	E6 TONS	1.4	0.63	0.21
EXIST=	0.81										
NEW=	0.81										
PAINT MANUFACTURING	0.83	LB/TON	1.000	0.001	1.000	0.067S	0.026C	E6 TONS	4.9	3.3	1.5

PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
			S	E	N	P	B	C	A	B	C
									1975	1985	1985
SYNTHETIC FIBER - DACRON	0.68	LB/TON	1.580	0.350	7.000	0.045S	0.164C	E6 TONS	2.3	1.0	8.2
EXPLOSIVES - HIGH	0.93	LB/TON	1.550	1.350	50.400	0.045S	0.094C	E6 TONS	1.8	0.83	2.7
PRIMARY LEAD SMELTERS	0.99	LB/TON	3.060	1.190	790.000	0.036S	0.000	E6 TONS	0.76	0.2R	0.0
EXIST- NEW	0.85		3.060								
STYRENE - BUTADIENE RUBBER	0.75	LB/TON	0.700	0.120	0.700	0.003S	0.020C	E6 TONS	2.3	0.070	0.51
MINING/MILLING LEAD ORE	0.92	LB/TON	4.170	2.090	4.170	0.050S	0.000	E6 TONS	0.62	0.31	0.0
LEAD ACID BATTERY	0.76	LB/PRD UNT	0.032	0.000	0.130	0.040S	0.050C	E6 PU	80.0	32.0	50.3
CASTABLE REFRACTORY	0.50	LB/TON	5.320	4.620	254.000	0.033S	0.043C	E6 TONS	0.39	0.13	0.20
PHOSPHATE ROCK - CALCINING	0.90	LB/TON	0.960	0.400	40.000	0.050S	0.048S	E6 TONS	2.5	1.3	1.2
SYNTHETIC FIBER - NYLON	0.72	LB/TON	1.530	0.750	15.000	0.045S	0.127C	E6 TONS	1.7	0.77	4.0
SEC ALUMINUM - SWEAT FURNACE	0.68	LB/TON	7.360	1.980	33.000	0.036S	0.047S	E6 TONS	0.30	0.11	0.14
CLAY SINTERING	0.80	LB/TON	2.410	0.026	26.000	0.033S	0.027S	E6 TONS	0.74	0.24	0.20
COFFEE ROASTING	0.85	LB/TON	0.794	0.440	7.300	0.040S	0.000S	E6 TONS	1.5	0.62	0.0
BRASS & BRONZE SMELTING	0.80	LB/TON	3.250	0.280	70.000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
EXIST- NEW	0.80		1.200								
SECONDARY ZINC - DISTILLATION	0.52	LB/TON	2.710	1.700	46.000	0.035S	0.039C	E6 TONS	0.38	0.13	0.18
FERTILIZER GTSP STORAGE	0.76	LB/TON	1.110	0.022	2.170	0.045S	0.042C	E6 TONS	1.2	0.53	0.60
GLASS - EPAL	0.80	LB/TON	2.240	0.022	2.240	0.033S	0.028S	E6 TONS	0.46	0.15	0.13
SMOKED MEAT	0.81	LB/TON	0.300	0.100	0.300	0.040S	0.017S	E6 TONS	3.6	1.4	0.61
ANIMAL FEED DEFLUBRINATION	0.90	LB/TON	4.570	0.063	625.000	0.040S	0.000S	E6 TONS	0.20	0.080	0.0
MIXED FUEL BOILERS - COAL & REFUSE	0.58	LB/TON	5.000	3.660	366.000	0.000S	17.290S	E6 TONS	0.16	0.0	27.0
SECONDARY ZINC - SWEATING	0.82	LB/TON	3.860	0.372	23.600	0.035S	0.039C	E6 TONS	0.20	0.070	0.093

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES DECIMAL/YR		CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	UNCENT E N	P B	P C	A 1975	B 1985	
FIBERGLASS MFG--TEXTILE	0.70	LB/TON	2.780	1.460	0.063S	0.122C	0.52	0.32	1.1
SECONDARY LEAD - BLAST	0.68	LB/TON	4.350	1.050	0.024S	0.032C	0.15	0.036	0.055
EXIST. NEW	0.68		1.250						
AUTOBODY INCINERATION	0.90	LB/PRD UNIT	1.970	0.540	0.039S	0.280S	0.29	0.11	0.82
BRCHARD HEATERS	1.00	LB/TON	0.007	0.000	0.033S	0.028S	60.0	19.8	16.8
SOAP	0.90	LB/TON	0.724	0.026	0.045S	0.000S	0.55	0.25	0.0
PATHOLOGICAL INCINERATION	0.34	LB/TON	4.600	1.900	0.039S	0.026C	0.13	0.051	0.038
EXIST. NEW	0.34		3.800						
FISH MEAL PROCESSING	0.81	LB/TON	0.400	0.040	0.008S	0.000C	0.36	0.029	0.0
MIXED FUEL BOILERS - OIL & REFUSE	0.58	LB/TON	5.000	1.020	0.000S	17.290S	0.036	0.0	6.2
SEC MAGNESIUM	0.82	LB/TON	6.780	0.680	0.035S	0.016S	0.017	0.0061	0.0028
SECONDARY LEAD - POT FURNACE	0.68	LB/TON	1.360	0.041	0.024S	0.032C	0.065	0.016	0.024

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T J 1985	T A 1975	EMISSIONS			T N 1985	TONS/YEAR T-T S N 1985	I - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985			
CEMENT PLANTS								
BLR >250 E6 BTU/HR	18749.	9548.	7161.	10464.	7179.	7173.	5200.	0.297
BLR 10-250 E6 BTU/HR	43153.	2250.	1125.	12632.	2106.	1616.	490000.	0.500
BOILERS .3-10 MM BTU/HR	7255.	1197.	599.	3157.	1276.	856.	419000.	0.620
GRAIN HANDLING - PROCESSING	1260.	877.	521.	521.	1260.	663.	597000.	0.808
COKE OVENS - BY PRODUCT	684.	212.	134.	371.	246.	135.	111000.	0.986
ASPHALT BATCHING	189.	172.	124.	124.	189.	130.	59600.	0.912
GRAIN HANDLING - TRANSFER	7824.	131.	120.	4800.	154.	129.	25000.	0.734
* BOILERS <.3 MM BTU/HR	2280.	191.	120.	1238.	221.	130.	90600.	0.897
GRAIN HANDLING - SCREENING	191.	144.	115.	115.	191.	115.	76300.	1.000
STONE QUARRYING AND PROCESSING	684.	158.	99.6	371.	184.	103.	80700.	0.963
W88D WASTE BOILERS	10101.	186.	92.9	3798.	247.	156.	91100.	0.591
W88D PULPING KRAFT	1464.	142.	71.1	650.	160.	79.4	80800.	0.907
IRON AND STEEL - BLAST FURNACE	3706.	93.5	64.5	2269.	105.	105.	0.0	0.000
IRON & STEEL - FAF	10336.	80.1	57.7	5769.	103.	103.	0.0	0.000
PETROLEUM REFINRY FCCU	809.	74.2	53.4	337.	70.1	61.4	8600.	0.520
BRICK & RELATED CLAY PRODUCTS	234.	42.2	29.1	107.	38.1	34.4	3600.	0.412
MUNICIPAL INCINERATION	2367.	39.6	26.5	1249.	50.2	37.8	12400.	0.523
PRIMARY COPPER	262.	41.9	25.5	109.	36.8	33.2	3600.	0.322
INDUSTRIAL/COMMERCIAL INCINERATION	557.	38.8	24.8	265.	52.2	25.7	26400.	0.968
	114.	40.1	24.4	24.4	114.	25.3	88400.	0.990

* BOILERS

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS				T S 1985	T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985				
SAND AND GRAVEL PROCESSING	45.7	45.7	22.8	22.8	45.7	24.0	21600.	0.950
INTERNAL COMB ENGS DIESEL DUALFUEL	36.1	28.2	22.5	22.5	36.1	34.1	2000.	0.148
PLYWOOD - VENEER	181.	42.9	21.5	709.	55.0	32.4	22600.	0.615
STEEL FOUNDRIES	237.	29.0	20.9	98.7	50.2	22.3	27900.	0.953
LIME PROCESSING	3891.	40.0	20.0	1194.	65.2	22.7	42400.	0.940
VEGETABLE OIL PRODUCTION	240.	25.9	18.6	136.	32.9	19.7	13100.	0.927
GAS TURBINE ENGINES ELECTRIC UTILITIES	82.3	22.3	17.8	17.8	82.3	17.8	64500.	1.000
GLASS - SODALINE	35.3	26.0	17.4	18.5	33.3	17.6	15700.	0.989
DIRECT FIRING OF MEATS	34.0	25.5	12.8	12.8	34.0	14.5	19500.	0.920
CAST IRON FOUNDRY - ELEC. FURN.	40.0	16.9	12.2	12.2	40.0	12.5	27500.	0.990
WHISKEY	43.2	17.3	11.8	18.4	27.6	13.0	14600.	0.922
FERRALLLOY - SUBMERGED ARC FURNACE	372.	16.0	11.5	230.	18.6	12.9	5600.	0.800
IRON AND STEEL - SINTERING	1697.	15.7	11.3	947.	20.2	14.0	6200.	0.700
CONCRETE BATCHING	21.9	16.0	10.7	10.9	21.5	11.8	9600.	0.898
PRIMARY ALUMINUM SHELTERS	523.	16.1	10.4	165.	33.1	17.5	15600.	0.691
MINERAL WOOL	135.	14.8	10.4	79.1	17.7	16.6	1000.	0.150
CERAMIC CLAY	1384.	15.3	10.2	653.	21.7	17.5	4100.	0.362
GRAIN HANDLING - DRYING	137.	15.1	9.5	74.2	17.5	10.2	7300.	0.922
COAL CLEANING - THERMAL DRYING	1002.	16.1	8.0	388.	18.6	11.1	7400.	0.709
FEED MILLING - OTHER	151.	11.0	7.8	75.9	15.5	8.2	7300.	0.951

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS							TONS/YEAR T-S-N 1985	I - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985			
GYPSUM									
COTTON GINNING	886.	9.6	6.8	592.	10.2	7.5	2700.	0.800	
IRON & STEEL - BOF	73.2	11.3	6.5	37.6	12.8	8.0	4700.	0.770	
PHOSPHATE ROCK - GRINDING	3020.	8.3	6.0	1469.	10.6	10.6	0.0	0.000	
DEEP FAT FRYING	34.5	11.4	5.7	12.1	16.2	5.7	10500.	0.998	
SUGAR CANE - BAGASSE BURNING	19.4	7.6	5.5	9.2	11.6	5.6	6000.	0.983	
FERTILIZER - AMMONIUM SULFATE	66.4	9.7	4.9	28.9	11.2	8.6	2500.	0.405	
HYDROFLUORIC ACID	233.	7.9	4.4	42.8	23.8	13.9	9900.	0.510	
IRON AND STEEL - SCARFING	229.	7.7	4.2	84.7	11.5	11.5	0.0	0.000	
BEER PROCESSING	152.	5.4	3.9	84.9	7.0	4.6	2400.	0.783	
FERTILIZER - NITRATES	31.3	6.1	3.7	9.5	12.0	4.7	7200.	0.871	
CHARCOAL	101.	6.6	3.6	28.3	13.1	5.1	7900.	0.845	
POLYVINYL CHLORIDE	181.	6.6	3.6	65.4	10.0	4.8	5200.	0.821	
PHOSPHATE ROCK - DRYING/HANDLING	83.3	3.6	3.6	39.2	7.6	4.0	3500.	0.890	
FERTILIZER - DAP	377.	6.5	3.2	134.	9.2	5.4	3700.	0.641	
WOOD PULPING SULFITE	176.	4.9	2.7	63.0	7.6	5.0	2600.	0.535	
ASPHALT SATURATOR	31.8	3.5	2.4	19.5	4.0	4.0	0.0	0.000	
STARCH	25.8	3.8	2.2	12.0	4.7	2.3	2300.	0.945	
SEC ALUMINUM - REVERB FURNACE	16.9	3.5	1.9	7.8	4.2	2.0	2200.	0.990	
GAS TURBINE ENGINES GAS PIPELINE	167.	2.8	1.8	73.1	4.1	2.3	1800.	0.800	
	5.4	2.2	1.8	1.8	5.4	1.8	3600.	1.000	

* GAS TURBINE ENGINES GAS PIPELINE

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS				T S 1985	T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985				
SECONDARY COPPER - SMELTING 92.2		2.6	1.7	41.5	3.8	1.9	1800.	0.903
DETERGENT 143.		1.7	1.7	101.	2.4	1.9	480.	0.700
POLYPROPYLENE 7.6		1.7	1.6	1.8	6.7	1.7	5000.	0.989
SODIUM CARBONATE - NATURAL 764.		2.9	1.6	124.	9.8	4.8	5000.	0.612
FEED MILLING - ALFALFA DEHYDR. 71.9		2.1	1.5	36.2	3.0	1.7	1200.	0.879
PRIMARY ZINC SMELTERS 1267.		2.1	1.3	575.	2.3	2.0	240.	0.258
PET REF - PROC GAS COMB 2.9		1.9	1.3	1.3	2.9	1.6	1300.	0.850
CARBON BLACK - FURNACE PROCESS 215.		2.4	1.3	92.6	3.0	2.5	500.	0.290
FRIT MANUFACTURING 8.2		1.9	1.3	4.0	2.7	1.7	940.	0.693
SECONDARY COPPER - HANDLING 91.2		2.0	1.3	41.1	2.9	1.5	1300.	0.872
FIBERGLASS MFG.-WOOL PRODUCTS 55.0		3.3	1.2	13.7	4.9	4.9	0.0	0.000
PULPBOARD 2.0		1.7	1.2	1.2	2.0	1.3	700.	0.854
SECONDARY LEAD - REVERB 92.0		1.6	1.2	51.0	1.4	1.3	20.0	0.160
SLUDGE INCINERATION 122.		1.5	0.98	23.4	2.3	2.3	0.0	-0.000
ASPHALT BLOWING 7.4		1.7	0.97	3.5	2.1	1.0	1000.	0.964
FLY ASH SINTERING 621.		1.3	0.89	243.	2.3	1.3	990.	0.725
PERLITE 7.6		1.2	0.81	3.9	1.6	0.96	600.	0.807
SYNTHETIC RESINS - POLYESTER 11.7		1.4	0.78	1.3	6.8	1.3	5500.	0.915
PHOSPHORIC ACID - THERMAL PROCESS 86.7		1.3	0.70	41.5	1.5	0.75	720.	0.941
PAINT MANUFACTURING 2.7		2.0	0.68	0.68	2.7	0.68	1900.	0.999

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				T N 1985	T S N 1985	T - T S N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985					
SYNTHETIC FIBER - DACRON	24.9	1.2	0.68	3.0	5.6	1.8	3800.		0.778	
EXPLOSIVES - HIGH	94.4	1.2	0.65	21.1	2.9	2.6	290.		0.129	
PRIMARY LEAD SMELTERS	272.	1.2	0.64	164.	1.1	0.80	250.		0.611	
STYRENE - BUTADIENE RUBBER	0.75	0.62	0.60	0.60	0.75	0.62	120.		0.829	
MINING/MILLING LEAD ORE	1.2	1.2	0.60	0.60	1.2	0.90	290.		0.499	
LEAD ACID BATTERY	6.4	0.97	0.58	2.4	1.6	0.59	990.		0.996	
CASTABLE REFRACTORY	59.9	0.82	0.55	26.3	1.3	1.2	90.0		0.132	
PHOSPHATE ROCK - CALCINING	67.9	1.1	0.55	22.9	1.6	1.0	620.		0.583	
SYNTHETIC FIBER - NYLON	30.6	0.34	0.52	5.1	3.1	1.8	1300.		0.510	
SEC ALUMINUM - SWEAT FURNACE	5.0	0.76	0.49	2.2	1.1	0.65	450.		0.731	
CLAY SINTERING	9.8	0.71	0.48	5.2	0.91	0.48	420.		0.989	
COFFEE ROASTING	4.8	0.52	0.31	2.9	0.52	0.43	90.0		0.446	
BRASS & BRONZE SMELTING	10.5	0.49	0.31	6.7	0.38	0.33	40.0		0.767	
SECONDARY ZINC - DISTILLATION	10.5	0.42	0.27	4.7	0.62	0.49	120.		0.373	
FERTILIZER GTSP STORAGE	1.5	0.50	0.27	0.54	0.75	0.28	460.		0.980	
GLASS - OPAL	0.52	0.41	0.27	0.27	0.52	0.28	240.		0.990	
SMOKED MEAT		0.44	0.26	0.26	0.51	0.35	160.		0.667	
ANIMAL FEED DEFLUBRINATION	0.51	0.41	0.25	33.8	0.41	0.25	160.		0.986	
MIXED FUEL BOILERS - COAL & REFUSE	56.2	0.23	0.23	16.6	39.3	28.9	10400.		0.268	
2879.										
SECONDARY ZINC - SWEATING	2.8	0.32	0.21	1.3	0.46	0.26	190.		0.774	

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985			
FIBERGLASS MFG.-TEXTILE PRODUCTS								
48.2		0.50	0.19	5.7	1.6	0.93	660.	0.475
SECONDARY LEAD - BLAST		0.22	0.17	10.4	0.20	0.20	6.1	0.160
18.7		0.26	0.16	0.16	0.99	0.39	600.	0.726
AUTOBODY INCINERATION	1.0							
* ORCHARD HEATERS	0.27	0.21	0.14	0.14	0.27	0.14	120.	1.000
SOAP	3.2	0.18	0.099	1.8	0.18	0.10	70.0	0.964
PATHOLOGICAL INCINERATION	0.37	0.10	0.062	0.17	0.12	0.091	20.0	0.500
FISH MEAL PROCESSING	0.058	0.058	0.054	0.054	0.058	0.054	4.2	0.900
MIXED FUEL BOILERS - OIL & REFUSE	184.	0.052	0.052	1.1	9.1	1.9	7100.	0.796
SEC MAGNESIUM	0.056	0.049	0.032	0.032	0.056	0.034	20.0	0.900
SECONDARY LEAD - POT FURNACE	0.041	0.030	0.023	0.023	0.041	0.023	10.0	0.970

TUE

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			A 1975	B 1985	C 1985
			ALLOWABLE F	E	N	P	B	C			
BLR >250 E6 BTU/HR EXIST=	0.58	LB/E6 BTU	0.277	0.050	3.110	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
NEW=	0.58		0.100								
CEMENT PLANTS EXIST=	0.90	LB/TON	206.000	0.450	301.000	0.025S	0.030C	E6 TONS	103.	25.8	35.4
NEW=	0.90		0.640								
IRON AND STEEL - BLAST FURNACE 0.90		LB/TON	1.500	1.500	150.000	0.028S	0.029S	E6 TONS	119.	33.2	34.4
ASPHALT BATCHING EXIST=	0.47	LB/TON	0.376	0.045	15.000	0.008S	0.050S	E6 TONS	1480.	118.	740.
NEW=	0.47		0.169								
STONE QUARRYING AND PROCESSING 0.80		LB/TON	0.379	0.155	15.500	0.050S	0.033S	E6 TONS	1225.	613.	404.
BLR 10-250 E6 BTU/HR EXIST=	0.32	LB/E6 BTU	0.383	0.127	2.020	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
NEW=	0.32		0.334								
W80D PULPING KRAFT 0.98		LB/TON	5.630	5.630	198.000	0.031S	0.012C	E6 TONS	33.9	10.5	4.3
IRON & STEEL - BOF EXIST=	0.90	LB/TON	0.208	0.150	51.000	0.028S	0.048S	E6 TONS	88.9	24.9	42.7
NEW=	0.90		0.150								
BRICK & RELATED CLAY PRODUCTS 0.80		LB/TON	2.770	1.320	130.500	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
GRAIN HANDLING - TRANSFER 0.82		LB/TON	1.940	0.200	20.000	0.037S	0.015C	E6 TONS	240.	88.7	38.5
LIPE PROCESSING 0.90		LB/TON	3.400	0.203	203.000	0.050S	0.050C	E6 TONS	26.1	13.1	16.4
IRON AND STEEL - SINTERING 0.90		LB/TON	0.500	0.150	42.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2
PLYWOOD - VENEER 0.95		LB/TON	0.004	0.001	0.132	0.050S	0.025C	E6 TONS	22600.	11300.	6330.
CERAMIC CLAY 0.80		LB/TON	2.750	1.755	175.500	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
W80D WASTE BOILERS 0.52		LB/TON	3.010	0.280	27.500	0.050S	0.012C	E6 TONS	163.	81.4	20.6
GYPSON 0.80		LB/TON	1.510	0.302	131.700	0.029S	0.006S	E6 TONS	15.9	4.7	0.91
PRIMARY ZINC SMELTERS EXIST=	0.83	LB/TON	2.860	1.670	1665.000	0.036S	0.035C	E6 TONS	1.3	0.47	0.52
NEW=	0.83		2.250								
BOILERS .3-10 MM BTU/HR 0.25		LB/E6 BTU	0.250	0.048	0.250	0.037S	0.043C	E12 BTU	26471.	9794.	13857.

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N		P B	P C	UNITS/YR	A 1975	B 1985	C 1985
COAL CLEANING - THERMAL DRYING EXIST. NEW.	0.59 0.59	LB/TON	0.410 0.340	0.099	19.800	0.050S	0.029S	E6 TONS	133.	66.5	38.6
GRAIN HANDLING - SCREENING	0.82	LB/TON	1.610	0.060	6.000	0.037S	0.015C	E6 TONS	240.	88.7	38.5
GRAIN HANDLING - PROCESSING	0.82	LB/TON	2.160	0.030	6.000	0.037S	0.015C	E6 TONS	240.	88.7	38.5
IRON & STEEL - EAF EXIST. NEW.	0.90 0.90	LB/TON	4.490 1.000	0.480	28.300	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
PRIMARY COPPER	0.85	LB/TON	37.900	1.220	405.000	0.036S	0.030C	E6 TONS	2.4	0.87	0.83
FLY ASH SINTERING	0.86	LB/TON	0.400	0.110	110.000	0.033S	0.055C	E6 TONS	7.7	2.5	5.4
FERRONALLOY - SUBMERGED ARC FURNACE 0.90	0.90	LB/TON	22.800	4.560	456.000	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
PRIMARY ALUMINUM SMELTERS	0.92	LB/TON	5.820	1.800	92.000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4
PRIMARY LEAD SMELTERS EXIST. NEW.	0.99 0.85	LB/TON	3.060 3.060	1.190	790.000	0.036S	0.000	E6 TONS	0.76	0.28	0.0
VEGETABLE OIL PRODUCTION	0.92	LB/TON	8.630	0.630	63.000	0.028S	0.027S	E6 TONS	6.5	1.8	1.8
PHOSPHATE ROCK - DRYING/HANDLING 0.87	0.87	LB/TON	0.340	0.122	14.000	0.050S	0.041S	E6 TONS	43.9	21.9	18.0
COKE OVENS - BY PRODUCT	0.93	LB/TON	4.900	0.430	4.900	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
SODIUM CARBONATE - NATURAL	0.87	LB/TON	1.160	0.450	90.000	0.045S	0.130C	E6 TONS	5.8	2.6	13.8
BOILERS <0.3 MM BTU/HR	0.30	LB/100 BTU	0.039	0.000	0.039	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
MUNICIPAL INCINERATION EXIST. NEW.	0.56 0.56	LB/TON	4.600 1.460	0.990	19.700	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
PETROLEUM REFINRY FCCU EXIST. NEW.	0.85 0.85	LB/TON	0.066 0.017	0.010	0.242	0.031S	0.042C	E6 TONS	1506.	467.	766.
DETERGENT	0.90	LB/TON	1.500	0.450	90.000	0.000S	0.035C	E6 TONS	2.5	0.0	1.0
STEEL FOUNDRIES	0.90	LB/TON	2.200	0.104	10.400	0.028S	0.073S	E6 TONS	29.3	8.2	21.4
CARBON BLACK - FURNACE PROCESS 0.77	0.77	LB/TON	3.100	2.200	220.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56

PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES			INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N	UNCONT E U	DECIMAL/YR P B	P C	UNITS/YR	A 1975	B 1985	C 1985
IRON AND STEEL - SCARFING	0.90	LB/TON	0.138	0.030	3.000	0.0285	0.0295	E6 TONS	87.3	24.4	25.3
HYDROFLUORIC ACID	0.98	LB/TON	35.000	35.000	700.000	0.0455	0.0495	E6 TONS	0.45	0.20	0.22
MINERAL WOOL	0.82	LB/TON	4.270	3.630	32.400	0.0295	0.0205	E6 TONS	8.4	2.5	1.7
FEED MILLING - OTHER	0.50	LB/TON	2.060	0.100	20.000	0.0295	0.0350	E6 TONS	21.4	6.2	8.8
GRAIN HANDLING - DRYING	0.82	LB/TON	0.770	0.060	6.000	0.0375	0.0150	E6 TONS	47.9	17.7	7.7
SEC ALUMINUM - REVERB FURNACE	0.82	LB/TON	4.800	0.960	195.000	0.0365	0.0475	E6 TONS	1.4	0.51	0.67
CHARCOAL	0.85	LB/TON	19.500	3.500	352.000	0.0455	0.0430	E6 TONS	0.79	0.36	0.42
FERTILIZER - DAP	0.89	LB/TON	3.530	1.640	82.000	0.0455	0.0545	E6 TONS	3.1	1.4	1.7
SECONDARY LEAD - REVERB	EXIST. 0.68 NEW 0.68	LB/TON	6.440 1.250	1.050	277.000	0.0245	0.0320	E6 TONS	0.71	0.17	0.26
FERTILIZER - AMMONIUM SULFATE	0.84	LB/TON	2.040	1.000	20.000	0.0455	0.1160	E6 TONS	9.3	4.2	18.5
SECONDARY COPPER - SHELTING	0.82	LB/TON	3.470	0.338	84.600	0.0355	0.0370	E6 TONS	1.8	0.64	0.82
PHOSPHORIC ACID - THERMAL PROCESS	0.21	LB/TON	2.270	0.134	134.000	0.0455	0.0140	E6 TONS	1.4	0.63	0.21
SECONDARY COPPER - HANDLING	0.82	LB/TON	6.640	0.848	212.000	0.0355	0.0370	E6 TONS	0.73	0.25	0.32
POLYVINYL CHLORIDE	0.82	LB/TON	3.180	0.350	35.000	0.0005	0.0780	E6 TONS	2.7	0.0055	3.1
COTTON GINNING	1.00	LB/BALE	2.090	0.480	12.000	0.0425	0.0135	E6 BALE	10.8	4.5	1.4
FEED MILLING - ALFALFA DEHYDR.	0.50	LB/TON	2.060	0.250	50.000	0.0295	0.0350	E6 TONS	4.1	1.2	1.7
ANIMAL FEED DEFLORINATION	0.90	LB/TON	4.570	0.063	625.000	0.0405	0.0005	E6 TONS	0.20	0.080	0.0
SUGAR CANE - BAGASSE BURNING	0.75	LB/TON	3.700	2.200	22.000	0.0505	0.0155	E6 TONS	7.0	3.5	1.0
FERTILIZER - NITRATES	0.77	LB/TON	1.640	0.254	12.720	0.0455	0.0700	E6 TONS	10.5	4.7	10.2
CASTABLE REFRACTORY	0.80	LB/TON	5.320	4.620	254.000	0.0335	0.0430	E6 TONS	0.39	0.13	0.20
INDUSTRIAL/COMMERCIAL INCINERATION	0.38	LB/TON	6.470	0.065	6.470	0.0395	0.1100	E6 TONS	32.6	12.7	60.0

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCENT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C 1985
			ALL E	EMISS S		N	U	P	A 1975	B 1985	
SLUDGE INCINERATION EXIST- NEW	0.50 0.50	LB/TON	5.000 1.600		1.600	0.033S	119.000	0.250S	1.2	0.39	2.9
PHOSPHATE ROCK - CALCINING	0.90	LB/TON	0.960		0.400	0.050S	40.000	0.048S	2.5	1.3	1.2
SAND AND GRAVEL PROCESSING	0.80	LB/TON	0.100		0.005	0.050S	0.100	0.000S	1142.	571.	0.0
INTERNAL COMB ENGS DIESEL FUEL	0.58	LB/TON	5.410		4.710	0.020S	5.410	0.028S	18.0	3.6	5.0
EXPLOSIVES - HIGH	0.83	LB/TON	1.550		1.350	0.045S	50.400	0.094C	1.8	0.83	2.7
WOOD PULPING SULFITE	0.98	LB/TON	3.000		3.000	0.031S	24.000	0.012C	2.4	0.74	0.30
GLASS - SODALIME	0.80	LB/TON	1.890		0.020	0.033S	2.000	0.028S	34.4	11.4	9.6
WHISKEY	0.95	LB/PRD UNIT	27.900		2.180	0.032S	43.600	0.060S	1.3	0.42	0.78
GAS TURBINE ENGINES ELECTRIC UTILITIES	0.22	LB/TON	3.740		0.000	0.020S	3.740	0.270S	54.1	10.8	146.
MIXED FUEL BOILERS - COAL & REFUSE	0.58	LB/TON	5.000		3.660	0.000S	366.000	17.290S	0.16	0.0	27.0
FIBERGLASS MFG--Wool Products	0.70	LB/TON	8.640		8.640	0.063S	96.000	0.042C	1.1	0.68	0.55
DIRECT FIRING OF HEATS	0.62	LB/TON	2445.000		195.600	0.050S	2445.000	0.033S	0.034	0.017	0.011
CAST IRON FOUNDRY - ELEC. FURN.	0.93	LB/TON	4.500		0.045	0.028S	4.500	0.136S	8.1	2.3	11.0
PHOSPHATE ROCK - GRINDING	0.94	LB/TON	0.940		0.002	0.050S	2.000	0.043S	25.7	12.8	11.1
ASPHALT SATURATOR	0.90	LB/TON	1.330		0.073	0.042S	7.300	0.025S	6.3	2.6	1.6
CONCRETE BATCHING	1.00	LB/TON	0.098		0.010	0.033S	0.100	0.030C	327.	108.	112.
SECONDARY LEAD - BLAST EXIST- NEW	0.68 0.68	LB/TON	4.350 1.250		1.050	0.024S	271.000	0.032C	0.15	0.036	0.055
BEER PROCESSING	0.81	LB/TON	2.090		0.270	0.040S	5.450	0.070C	7.2	2.9	7.0
DEEP FAT FRYING	0.81	LB/TON	7.130		0.119	0.028S	11.900	0.043C	2.6	0.74	1.4
STARCH	0.83	LB/TON	2.000		0.020	0.045S	8.000	0.018C	4.3	1.9	0.83

PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E U	GROWTH RATES DECIMAL/YR		C UNITS/YR	CAPACITY/PRODUCTION		C 1985
			E S	E N		P B	P C		A 1975	B 1985	
BRASS & BRONZE SMELTING EXIST. NEW-	0.80	LB/TON	3.250	0.280	70.000	0.036S	0.000S	E6 TONS	0.38	0.13	0.0
	0.80	PRODUCTS	1.200								
	0.70	LB/TON	2.780	1.460	84.000	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
CLAY SINTERING	0.80	LB/TON	2.410	0.026	26.000	0.033S	0.027S	E6 TONS	0.74	0.24	0.20
SYNTHETIC FIBER - NYLON	0.72	LB/TON	1.530	0.750	15.000	0.045S	0.127C	E6 TONS	1.7	0.77	4.0
SECONDARY ZINC - DISTILLATION	0.82	LB/TON	2.710	1.700	46.000	0.035S	0.039C	E6 TONS	0.38	0.13	0.18
FRUIT MANUFACTURING	0.80	LB/TON	5.800	1.780	17.800	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
PERLITE	0.82	LB/TON	4.350	0.840	21.000	0.029S	0.036S	E6 TONS	0.65	0.19	0.23
ASPHALT BLOWING	0.90	LB/TON	1.180	0.042	4.200	0.042S	0.025S	E6 TONS	3.1	1.3	0.79
SYNTHETIC FIBER - DACRON	0.68	LB/TON	1.580	0.350	7.000	0.045S	0.164C	E6 TONS	2.3	1.0	8.2
COFFEE ROASTING	0.85	LP/TON	0.794	0.440	7.300	0.040S	0.000S	E6 TONS	1.5	0.62	0.0
LEAD ACID BATTERY	0.76	LB/PRD UNIT	0.032	0.000	0.130	0.040S	0.050C	E6 PU	80.0	32.0	50.3
SEC ALUMINUM - SWEAT FURNACE	0.68	LB/TON	7.360	1.980	33.000	0.036S	0.047S	E6 TONS	0.30	0.11	0.14
POLYPROPYLENE	0.78	LB/TON	2.670	0.030	3.000	0.003S	0.150C	E6 TONS	1.6	0.048	4.9
S9AP	0.90	LB/TON	0.724	0.026	13.000	0.045S	0.000S	E6 TONS	0.55	0.25	0.0
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	1.180	0.000	1.180	0.020S	0.145S	E6 TONS	4.4	0.88	6.4
SYNTHETIC RESINS - POLYESTER	0.68	LB/TON	4.100	0.350	7.000	0.045S	0.170C	E6 TONS	1.0	0.46	3.9
PET REF - PROC GAS COMB	0.85	LB/E6 BTU	20.000	3.000	20.000	0.031S	0.042C	E12 BTU	0.23	0.070	0.12
SECONDARY ZINC - SWEATING	0.82	LB/TON	3.860	0.872	23.600	0.035S	0.039C	E6 TONS	0.20	0.070	0.093
PULPBBOARD	0.98	LB/TON	0.096	0.014	0.096	0.031S	0.015C	E6 TONS	37.2	11.5	6.0
MIXED FUEL BOILERS - OIL & REFUSE	0.58	LB/TON	5.000	1.020	101.500	0.000S	17.290S	E6 TONS	0.036	0.0	6.2
PAINT MANUFACTURING	0.83	LB/TON	1.000	0.001	1.000	0.067S	0.026C	E6 TONS	4.9	3.3	1.5

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	EMISSION E N	UNCERT E U	P P	B B	A 1975	B 1985	
STYRENE - BUTADIENE RUBBER	0.75	LB/TON	0.700	0.120	0.700	0.003S	0.020C	2.3	0.070	0.51
MINING/MILLING LEAD ORE	0.92	LB/TON	4.170	2.090	4.170	0.050S	0.000	0.62	0.31	0.0
FERTILIZER GTSP STORAGE	0.76	LB/TON	1.110	0.022	2.170	0.045S	0.042C	1.2	0.53	0.60
GLASS - OPAL	0.80	LB/TON	2.240	0.022	2.240	0.033S	0.028S	0.46	0.15	0.13
SPOKED WHEEL	0.81	LB/TON	0.300	0.100	0.300	0.040S	0.017S	3.6	1.4	0.61
FATHOLOGICAL INCINERATION EXIST.	0.34	LB/TON	4.600	1.900	12.800	0.039S	0.026C	0.13	0.051	0.038
NEW AUTOMOBILE INCINERATION	0.34	LB/TON	3.800							
ORCHARD HEATERS	0.90	LB/PRD UNIT	1.970	0.540	2.000	0.039S	0.280S	0.29	0.11	0.82
FISH MEAL PROCESSING	1.00	LB/TON	0.007	0.000	0.007	0.033S	0.028S	60.0	19.8	16.8
SEC MAGNESIUM	0.81	LB/TON	0.400	0.040	0.400	0.008S	0.000C	0.36	0.029	0.0
SECONDARY LEAD - POT FURNACE	0.82	LB/TON	6.780	0.680	6.780	0.035S	0.016S	0.017	0.0061	0.0028
	0.68	LB/TON	1.360	0.041	1.360	0.024S	0.032C	0.065	0.016	0.024

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	T E 1985	EMISSIONS			T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
				1000 TONS/YEAR	T UE 1985	T S 1985			
BLR >250 E6 BTU/HR	43153.	2250.	1125.	12632.	2106.	1616.	490000.	0.500	
CEMENT PLANTS	18749.	9548.	7161.	10464.	7179.	7173.	5200.	0.297	
IRON AND STEEL - BLAST FURNACE	10336.	80.1	57.7	5769.	103.	103.	0.0	0.000	
ASPHALT BATCHING	7826.	131.	120.	4800.	154.	129.	25000.	0.734	
STONE QUARRYING AND PROCESSING	10101.	186.	92.9	3798.	247.	156.	91100.	0.591	
BLR 10-250 E6 BTU/HR	7255.	1197.	599.	3157.	1276.	856.	419000.	0.620	
WOOD PULPING KRAFT	3706.	93.5	64.5	2269.	105.	105.	0.0	0.000	
IRON & STEEL - BOF	3020.	8.3	6.0	1469.	10.6	10.6	0.0	0.000	
BRICK & RELATED CLAY PRODUCTS	2367.	39.6	26.5	1249.	50.2	37.8	12400.	0.523	
GRAIN HANDLING - TRANSFER	2280.	191.	120.	1238.	221.	130.	90600.	0.897	
LIME PROCESSING	3891.	40.0	20.0	1194.	65.2	22.7	42400.	0.940	
IRON AND STEEL - SINTERING	1697.	15.7	11.3	947.	20.2	14.0	6200.	0.700	
PLYWOOD - VENEER	1814.	42.9	21.5	709.	55.0	32.4	22600.	0.675	
CERAMIC CLAY	1324.	15.3	10.2	653.	21.7	17.5	4100.	0.362	
WOOD WASTE BOILERS	1464.	142.	71.1	650.	160.	79.4	80800.	0.907	
GYPSUM	886.	9.6	6.8	592.	10.2	7.5	2700.	0.800	
PRIMARY ZINC SHELTERS	1267.	2.1	1.3	575.	2.3	2.0	240.	0.258	
BOILERS 3-10 MM BTU/HR	1260.	827.	521.	521.	1260.	663.	597000.	0.808	
COAL CLEANING - THERMAL DRYING	1002.	16.1	8.0	388.	18.6	11.1	7400.	0.709	
GRAIN HANDLING - SCREENING	684.	158.	99.6	371.	184.	103.	80700.	0.963	

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - T S - N 1985	1 - E / E N - S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985	
GRAIN HANDLING - PROCESSING							
IRON & STEEL - EAF	809.	74.2	53.4	337.	70.1	61.4	0.520
PRIMARY COPPER	557.	38.8	24.8	265.	52.2	25.7	0.968
FLY ASH SINTERING	621.	1.3	0.89	243.	2.3	1.3	0.725
FERRALLLOY - SUBMERGED ARC FURNACE	372.	16.0	11.5	230.	18.6	12.9	0.800
PRIMARY ALUMINUM SMELTERS	523.	16.1	10.4	165.	33.1	17.5	0.691
PRIMARY LEAD SMELTERS	272.	1.2	0.64	164.	1.1	0.80	0.611
VEGETABLE OIL PRODUCTION	240.	25.9	18.6	136.	32.9	19.7	0.927
PHOSPHATE ROCK - DRYING/HANDLING	377.	6.5	3.2	134.	9.2	5.4	0.641
COKE OVENS - BY PRODUCT	189.	172.	124.	124.	189.	130.	0.912
SODIUM CARBONATE - NATURAL	764.	2.9	1.6	124.	9.8	4.8	0.612
* BOILERS < 3 MM BTU/HR	191.	144.	115.	115.	191.	115.	1.000
MUNICIPAL INCINERATION	262.	41.9	25.5	109.	36.8	33.2	0.322
PETROLEUM REFINRY FCCU	234.	42.2	29.1	107.	38.1	34.4	0.412
DETERGENT	143.	1.7	1.7	101.	2.4	1.9	0.700
STEEL FOUNDRIES	237.	29.0	20.9	98.7	50.2	22.3	0.953
CARBON BLACK - FURNACE PROCESS	215.	2.4	1.3	92.6	3.0	2.5	0.290
IRON AND STEEL - SCRAPING	152.	5.4	3.9	84.9	7.0	4.6	0.783
HYDROFLUORIC ACID	229.	7.7	4.2	84.7	11.5	11.5	0.000
MINERAL WOOL	135.	14.8	10.4	79.1	17.7	16.6	0.150

* BOILERS < 3 MM BTU/HR

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS				T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S	
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T LE 1985				T S 1985
FEED MILLING - OTHER	151.	11.0	7.8	75.9	15.5	8.2	7300.	0.951
GRAIN HANDLING - DRYING	137.	15.1	9.5	74.2	17.5	10.2	7300.	0.922
SEC ALUMINUM - REVERB FURNACE	167.	2.8	1.8	73.1	4.1	2.3	1800.	0.800
CHARCOAL	181.	6.6	3.6	65.4	10.0	4.8	5200.	0.821
FERTILIZER - DAP	176.	4.9	2.7	63.0	7.6	5.0	2600.	0.535
SECONDARY LEAD - REVERB	92.0	1.6	1.2	51.0	1.4	1.3	20.0	0.160
FERTILIZER - AMMONIUM SULFATE	233.	7.9	4.4	42.8	23.8	13.9	9900.	0.510
SECONDARY COPPER - SMELTING	92.2	2.6	1.7	41.5	3.8	1.9	1800.	0.903
PHOSPHORIC ACID - THERMAL PROCESS	86.7	1.3	0.70	41.5	1.5	0.75	720.	0.941
SECONDARY COPPER - HANDLING	91.2	2.0	1.3	41.1	2.9	1.5	1300.	0.872
POLYVINYL CHLORIDE	83.3	3.6	3.6	39.2	7.6	4.0	3500.	0.890
COTTON GINNING	73.2	11.3	6.5	37.6	12.8	8.0	4700.	0.770
FEED MILLING - ALFALFA DEHYDR.	71.9	2.1	1.5	36.2	3.0	1.7	1200.	0.879
ANIMAL FEED DEFLUORINATION	56.2	0.41	0.25	33.8	0.41	0.25	160.	0.986
SUGAR CANE - BAGASSE BURNING	66.4	9.7	4.9	28.9	11.2	3.6	2500.	0.405
FERTILIZER - NITRATES	101.	6.6	3.6	28.3	13.1	5.1	7900.	0.845
CASTABLE REFRACTORY	59.9	0.82	0.55	26.3	1.3	1.2	90.0	0.132
INDUSTRIAL/COMMERCIAL INCINERATION	114.	40.1	24.4	24.4	114.	25.3	88400.	0.990
SLUDGE INCINERATION	122.	1.5	0.98	23.4	2.3	2.3	0.0	-0.000
PHOSPHATE ROCK - CALCINING	67.9	1.1	0.55	22.9	1.6	1.0	620.	0.583

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985		
SAND AND GRAVEL PROCESSING	45.7	45.7	22.8	22.8	45.7	24.0	0.950
INTERNAL COMB ENGS DIESEL DUALFUEL	36.1	28.2	22.5	22.5	36.1	34.1	0.148
EXPLOSIVES - HIGH	94.4	1.2	0.65	21.1	2.9	2.6	0.129
WOOD PULPING SULFITE	31.8	3.5	2.4	19.5	4.0	4.0	0.000
GLASS - SODALIME	35.3	26.0	17.4	18.5	33.3	17.6	0.989
WHISKEY	43.2	17.3	11.8	18.4	27.6	13.0	0.922
* GAS TURBINE ENGINES ELECTRIC UTILITIES	82.3	22.3	17.8	17.8	82.3	17.8	1.000
MIXED FUEL BOILERS - COAL & REFUSE	2879.	0.23	0.23	16.6	39.3	28.9	0.268
FIBERGLASS MFG.-WOOL PRODUCTS	55.0	3.3	1.2	13.7	4.9	4.9	0.000
DIRECT FIRING OF MEATS	34.0	25.5	12.8	12.8	34.0	14.5	0.920
CAST IRON FOUNDRY - ELEC. FURN.	40.0	16.9	12.2	12.2	40.0	12.5	0.990
PHOSPHATE ROCK - GRINDING	34.5	11.4	5.7	12.1	16.2	5.7	0.998
ASPHALT SATURATOR	25.8	3.8	2.2	12.0	4.7	2.3	0.945
CONCRETE BATCHING	21.9	16.0	10.7	10.9	21.5	11.8	0.898
SECONDARY LEAD - BLAST	18.7	0.22	0.17	10.4	0.20	0.20	0.160
BEER PROCESSING	31.3	6.1	3.7	9.5	12.0	4.7	0.871
DEEP FAT FRYING	19.4	7.6	5.5	9.2	11.6	5.6	0.983
STARCH	16.9	3.5	1.9	7.8	4.2	2.0	0.990
BRASS & BRONZE SMELTING	10.5	0.49	0.31	6.7	0.38	0.33	0.767
FIBERGLASS MFG.-TEXTILE PRODUCTS	48.2	0.50	0.19	5.7	1.6	0.93	0.475

PARTICULATES

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				T S N 1985	T - T S N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985			
CLAY SINTERING	3.8	0.71	0.48	5.2	0.91	0.48	420.	0.989	
SYNTHETIC FIBER - NYLON	30.6	0.94	0.52	5.1	3.1	1.8	1300.	0.510	
SECONDARY ZINC - DISTILLATION	10.5	0.42	0.27	4.7	0.62	0.49	120.	0.373	
FRUIT MANUFACTURING	8.2	1.9	1.3	4.0	2.7	1.7	940.	0.693	
PERLITE	7.6	1.2	0.81	3.9	1.6	0.96	600.	0.807	
ASPHALT BLOWING	7.4	1.7	0.97	3.5	2.1	1.0	1000.	0.964	
SYNTHETIC FIBER - DACRON	24.9	1.2	0.68	3.0	5.6	1.8	3800.	0.778	
COFFEE ROASTING	4.8	0.52	0.31	2.9	0.52	0.43	90.0	0.446	
LEAD ACID BATTERY	6.4	0.97	0.58	2.4	1.6	0.59	990.	0.996	
SEC ALUMINUM - SWEAT FURNACE	5.0	0.76	0.49	2.2	1.1	0.65	450.	0.731	
POLYPROPYLENE	7.6	1.7	1.6	1.8	6.7	1.7	5000.	0.989	
SOAP	3.2	0.18	0.099	1.8	0.18	0.10	70.0	0.964	
* GAS TURBINE ENGINES GAS PIPELINE	5.4	2.2	1.8	1.8	5.4	1.8	3600.	1.000	
SYNTHETIC RESINS - POLYESTER	11.7	1.4	0.78	1.3	6.8	1.3	5500.	0.915	
PET REF - PROC GAS COMB	2.9	1.9	1.3	1.3	2.9	1.6	1300.	0.850	
SECONDARY ZINC - SWEATING	2.8	0.32	0.21	1.3	0.46	0.26	190.	0.774	
PULPBOARD	2.0	1.7	1.2	1.2	2.0	1.3	700.	0.854	
MIXED FUEL BOILERS - OIL & REFUSE	184.	0.052	0.052	1.1	9.1	1.9	7100.	0.796	
PAINT MANUFACTURING	2.7	2.0	0.68	0.68	2.7	0.68	1900.	0.999	
STYRENE - BUTADIENE RUBBER	0.73	0.62	0.60	0.60	0.75	0.62	120.	0.829	

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SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES			CAPACITY/PRODUCTION			
			ALLOWABLE E S	EMISSION RATE E N	UNCONT E U	DECIMAL/YR P B	C	A 1975	B 1985	C 1985		
CEMENT PLANTS												
EXIST=	0.90	LB/TON	206.000	0.450	301.000	0.0255	0.030C	E6 TONS	103.	25.8	35.4	
NEW=	3.90		0.640									
BLR >250 E6 BTU/HR												
EXIST=	0.58	LB/E6 BTU	0.277	0.050	3.110	0.050S	0.055C	E12 BTU	28011.	14006.	19836.	
NEW=	0.58		0.100									
BLR 10-250 E6 BTU/HR												
EXIST=	0.32	LB/E6 BTU	0.383	0.127	2.020	0.050S	0.014C	E12 BTU	19534.	9767.	2914.	
NEW=	0.32		0.334									
BOILERS - 3-10 MM BTU/HR												
EXIST=	0.25	LB/E6 BTU	0.250	0.048	0.250	0.037S	0.043C	E12 BTU	26471.	9794.	13857.	
NEW=	0.25		0.379									
STONE QUARRYING AND PROCESSING												
EXIST=	0.80	LB/TON	0.379	0.155	15.500	0.050S	0.033S	E6 TONS	1225.	613.	404.	
NEW=	0.80		0.160									
GRAIN HANDLING - PROCESSING												
EXIST=	0.82	LB/TON	2.160	0.030	6.000	0.037S	0.015C	E6 TONS	240.	88.7	38.5	
NEW=	0.82		1.940									
GRAIN HANDLING - TRANSFER												
EXIST=	0.30	LB/E6 BTU	0.039	0.000	0.039	0.020S	0.029C	E12 BTU	24572.	4914.	8131.	
NEW=	0.30		0.900									
COKE OVENS - BY PRODUCT												
EXIST=	0.93	LB/TON	4.900	0.430	4.900	0.028S	0.010S	E6 TONS	75.5	21.1	7.5	
NEW=	0.93		1.610									
GRAIN HANDLING - SCREENING												
EXIST=	0.82	LB/TON	1.610	0.060	6.000	0.037S	0.015C	E6 TONS	240.	88.7	38.5	
NEW=	0.82		3.010									
WASTE BOILERS												
EXIST=	0.58	LB/TON	3.010	0.280	27.500	0.050S	0.012C	E6 TONS	163.	81.4	20.6	
NEW=	0.58		0.376									
ASPHALT BATCHING												
EXIST=	0.47	LB/TON	0.376	0.045	15.000	0.008S	0.050S	E6 TONS	1480.	118.	740.	
NEW=	0.47		0.169									
INDUSTRIAL/COMMERCIAL INCINERATION												
EXIST=	0.38	LB/TON	6.470	0.065	6.470	0.039S	0.110C	E6 TONS	32.6	12.7	60.0	
NEW=	0.38		5.630									
PULPING KRAFT												
EXIST=	0.98	LB/TON	5.630	5.630	198.000	0.031S	0.012C	E6 TONS	33.9	10.5	4.3	
NEW=	0.98		1.500									
IRON AND STEEL - BLAST FURNACE												
EXIST=	0.90	LB/TON	1.500	1.500	150.000	0.028S	0.029S	E6 TONS	119.	33.2	34.4	
NEW=	0.90		3.740									
GAS TURBINE ENGINES ELECTRIC UTILITIES												
EXIST=	0.22	LB/TON	3.740	0.000	3.740	0.020S	0.270S	E6 TONS	54.1	10.8	146.	
NEW=	0.22		4.490									
IRON & STEEL - EAF												
EXIST=	0.90	LB/TON	4.490	0.480	28.300	0.028S	0.073S	E6 TONS	36.7	10.3	26.8	
NEW=	0.90		1.000									
LIME PROCESSING												
EXIST=	0.90	LB/TON	3.400	0.203	203.000	0.050S	0.050C	E6 TONS	26.1	13.1	16.4	
NEW=	0.90		0.004									
FLYASH - VENEER												
EXIST=	0.95	LB/TON	0.004	0.001	0.132	0.050S	0.025C	E6 TONS	22600.	11300.	6330.	
NEW=	0.95											

PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N		P B	P C	UNITS/YR	A 1975	B 1985	C 1985
PRIMARY COPPER	0.85	LB/TON	37.900	1.220	405.000	0.036S	0.030C	E6 TONS	2.4	0.87	0.83
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	2.770	1.320	130.500	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
STEEL FOUNDRIES	0.90	LB/TON	2.200	0.104	10.400	0.028S	0.073S	E6 TONS	29.3	8.2	21.4
SAND AND GRAVEL PROCESSING	0.80	LB/TON	0.100	0.005	0.100	0.050S	0.000S	E6 TONS	1142.	571.	0.0
CAST IRON FOUNDRY - ELEC. FURN.	0.93	LB/TON	4.500	0.045	4.500	0.028S	0.136S	E6 TONS	8.1	2.3	11.0
MIXED FUEL BOILERS - COAL & REFUSE	0.58	LB/TON	5.000	3.660	366.000	0.000S	17.290S	E6 TONS	0.16	0.0	27.0
PETROLEUM REFINRY FCCU EXIST.	0.85	LB/TON	0.066	0.010	0.242	0.031S	0.042C	E6 TONS	1506.	467.	766.
NEW MUNICIPAL INCINERATION EXIST.	0.56	LB/TON	4.600	0.990	19.700	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
NEW INTERNAL COMB ENGS DIESEL DUALFUEL	0.56	LB/TON	1.460	4.610	5.410	0.020S	0.023S	E6 TONS	18.0	3.6	5.0
DIRECT FIRING OF HEATS	0.58	LB/TON	5.410	195.600	2445.000	0.050S	0.033S	E6 TONS	0.034	0.017	0.011
GLASS - SODALINE	0.62	LB/TON	2445.000	0.020	2.000	0.033S	0.028S	E6 TONS	34.4	11.4	9.6
PRIMARY ALUMINUM SHELTERS	0.80	LB/TON	1.890	1.800	92.000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4
VEGETABLE OIL PRODUCTION	0.92	LB/TON	5.820	0.430	63.000	0.028S	0.027S	E6 TONS	6.5	1.8	1.8
WHISKEY	0.95	LB/PRD UNT	27.900	2.180	43.600	0.032S	0.060S	E6 PU	1.3	0.42	0.78
FERTILIZER - AMMONIUM SULFATE	0.84	LB/TON	2.040	1.000	20.000	0.045S	0.116C	E6 TONS	9.3	4.2	18.5
CERAMIC CLAY	0.80	LB/TON	2.750	1.755	175.500	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
CONCRETE BATCHING	1.00	LB/TON	0.098	0.010	0.100	0.033S	0.030C	E6 TONS	327.	108.	112.
IRON AND STEEL - SINTERING	0.90	LB/TON	0.500	0.150	42.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2
COAL CLEANING - THERMAL DRYING	0.59	LB/TON	0.410	0.099	19.800	0.050S	0.029S	E6 TONS	133.	66.5	38.6
EXIST. NEW FERROALLOY - SUBMERGED ARC FURNACE	0.53	LB/TON	0.340	4.560	456.000	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
0.90		LB/TON	22.800								

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCENT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N		P	B	C	A	B	C
					U				1975	1985	1985
MINERAL WOOL											
GRAIN HANDLING - DRYING	0.82	LB/TON	4.270	3.630	32.400	0.029S	0.029S	0.020S	8.4	2.5	1.7
PHOSPHATE ROCK - GRINDING	0.82	LB/TON	0.770	0.060	6.000	0.037S	0.037S	0.015C	47.9	17.7	7.7
FEED MILLING - OTHER	0.94	LB/TON	0.940	0.002	2.000	0.050S	0.050S	0.043S	25.7	12.8	11.1
FERTILIZER - NITRATES	0.50	LB/TON	2.060	0.100	20.000	0.029S	0.029S	0.035C	21.4	6.2	8.8
COTTON GINNING	0.77	LB/TON	1.640	0.254	12.720	0.045S	0.045S	0.070C	10.5	4.7	10.2
BEER PROCESSING	1.00	LB/BALE	2.090	0.480	12.000	0.042S	0.042S	0.013S	10.8	4.5	1.4
DEEP FAT FRYING	0.81	LB/TON	2.090	0.270	5.450	0.040S	0.040S	0.070C	7.2	2.9	7.0
HYDROFLUORIC ACID	0.81	LB/TON	7.130	0.119	11.900	0.028S	0.028S	0.043C	2.6	0.74	1.4
SUGAR CANE - BAGASSE BURNING	0.98	LB/TON	35.000	35.000	700.000	0.045S	0.045S	0.049S	0.45	0.20	0.22
IRON & STEEL - B6F	0.75	LB/TON	3.700	2.200	22.000	0.050S	0.050S	0.015S	7.0	3.5	1.0
EXIST. NEW.	0.90	LB/TON	0.208	0.150	51.000	0.028S	0.028S	0.048S	88.9	24.9	42.7
GYPSUM	0.90		0.150								
CHARCOAL	0.80	LB/TON	1.510	0.302	131.700	0.029S	0.029S	0.006S	15.9	4.7	0.91
SODIUM CARBONATE - NATURAL	0.85	LB/TON	19.500	3.500	352.000	0.045S	0.045S	0.043C	0.79	0.36	0.42
PHOSPHATE ROCK - DRYING/HANDLING	0.87	LB/TON	1.160	0.450	90.000	0.045S	0.045S	0.130C	5.8	2.6	13.8
MIXED FUEL BOILERS - OIL & REFUSE	0.87	LB/TON	0.340	0.122	14.000	0.050S	0.050S	0.041S	43.9	21.9	18.0
FERTILIZER - DAP	0.58	LB/TON	5.000	1.020	101.500	0.000S	0.000S	17.290S	0.036	0.0	6.2
POLYVINYL CHLORIDE	0.89	LB/TON	3.530	1.640	82.000	0.045S	0.045S	0.054S	3.1	1.4	1.7
IRON AND STEEL - SCARFING	0.82	LB/TON	3.180	0.350	35.000	0.000S	0.000S	0.078C	2.7	0.005S	3.1
SYNTHETIC RESINS - POLYESTER	0.90	LB/TON	0.138	0.030	3.000	0.028S	0.028S	0.029S	87.3	24.4	25.3
POLYPROPYLENE	0.68	LB/TON	4.100	0.350	7.000	0.045S	0.045S	0.170C	1.0	0.46	3.9
	0.78	LB/TON	2.670	0.030	3.000	0.003S	0.003S	0.150C	1.6	0.048	4.9

PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES			CAPACITY/PRODUCTION		
			ALLOWABLE E S	E N	UNCENT E U	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
SYNTHETIC FIBER - DACKRON		LB/TON	1.580	0.350	7.000	0.045S	0.164C	E6 TONS	2.3	1.0	8.2
GAS TURBINE ENGINES GAS PIPELINE	0.68	LB/TON	1.180	0.000	1.180	0.020S	0.145S	E6 TONS	4.4	0.88	6.4
FIBERGLASS MFG. - W89L PRODUCTS	0.85	LB/TON	8.640	8.640	96.000	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
ASPHALT SATURATOR	0.70	LB/TON	1.330	0.073	7.300	0.042S	0.025S	E6 TONS	6.3	2.6	1.6
STARCH	0.90	LB/TON	2.000	0.020	8.000	0.045S	0.018C	E6 TONS	4.3	1.9	0.83
SEC ALUMINUM - REVERB FURNACE	0.83	LB/TON	4.800	0.960	195.000	0.036S	0.047S	E6 TONS	1.4	0.51	0.67
W89D PULPING SULFITE	0.82	LB/TON	3.000	3.000	24.000	0.031S	0.012C	E6 TONS	2.4	0.74	0.30
SECONDARY COPPER - SMELTING	0.98	LB/TON	3.470	0.338	84.600	0.035S	0.037C	E6 TONS	1.8	0.64	0.82
SYNTHETIC FIBER - NYLON	0.82	LB/TON	1.530	0.750	15.000	0.045S	0.127C	E6 TONS	1.7	0.77	4.0
CARBON BLACK - FURNACE PROCESS	0.72	LB/TON	3.100	2.200	220.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56
FEED MILLING - ALFALFA DEHYD.	0.77	LB/TON	2.060	0.250	50.000	0.029S	0.035C	E6 TONS	4.1	1.2	1.7
FET REF - PROC GAS COMB	0.50	LB/TON	20.000	3.000	20.000	0.031S	0.042C	E12 BTU	0.23	0.070	0.12
EXPLOSIVES - HIGH	0.85	LB/E6 BTU	1.550	1.350	50.400	0.045S	0.094C	E6 TONS	1.8	0.83	2.7
SECONDARY COPPER - HANDLING	0.83	LB/TON	6.640	0.848	212.000	0.035S	0.037C	E6 TONS	0.73	0.25	0.32
FRIT MANUFACTURING	0.82	LB/TON	5.800	1.780	17.800	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
PAINT MANUFACTURING	0.80	LB/TON	1.000	0.001	1.000	0.067S	0.026C	E6 TONS	4.9	3.3	1.5
DETERGENT	0.83	LB/TON	1.500	0.450	90.000	0.000S	0.035C	E6 TONS	2.5	0.0	1.0
SLUDGE INCINERATION	0.90	LB/TON	5.000	1.600	119.000	0.033S	0.250S	E6 TONS	1.2	0.39	2.9
EXIST. NEW	0.50	LB/TON	1.600								
PRIMARY ZINC SMELTERS	0.83	LB/TON	3.850	1.670	1665.000	0.036S	0.035C	E6 TONS	1.3	0.47	0.53
EXIST. NEW	0.83	LB/TON	2.250								
FLY ASH SINTERING	0.86	LB/TON	0.400	0.110	110.000	0.033S	0.055C	E6 TONS	7.7	2.5	5.4

PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE EMISSION F	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C 1985
				S	N		P	B	C	A	B	
ASPHALT BLOWING	0.90	LB/TON	1.180	0.042	4.200	0.042S	0.025S	E6 TONS	3.1	1.3	0.79	
PULPBARD	0.98	LB/TON	0.096	0.014	0.096	0.031S	0.015C	E6 TONS	37.2	11.5	6.0	
PHOSPHATE ROCK - CALCINING	0.90	LB/TON	0.960	0.400	40.000	0.050S	0.048S	E6 TONS	2.5	1.3	1.2	
FIBERGLASS MFG.-TEXTILE PRODUCTS	0.70	LB/TON	2.780	1.460	84.000	0.063S	0.122C	E6 TONS	0.52	0.32	1.1	
LEAD ACID BATTERY	0.76	LB/PRD UNIT	0.032	0.000	0.130	0.040S	0.050C	E6 PU	80.0	32.0	50.3	
PERLITE	0.82	LB/TON	4.350	0.840	21.000	0.029S	0.036S	E6 TONS	0.65	0.19	0.23	
PHOSPHORIC ACID - THERMAL PROCESS	0.81	LB/TON	2.270	0.134	134.000	0.045S	0.014C	E6 TONS	1.4	0.63	0.21	
SECONDARY LEAD - REVERB EXIST. NEW	0.68 0.68	LB/TON	6.440 1.250	1.050	277.000	0.024S	0.032C	E6 TONS	0.71	0.17	0.26	
CASTABLE REFRACTORY	0.80	LB/TON	5.320	4.620	254.000	0.033S	0.043C	E6 TONS	0.39	0.13	0.20	
PINING/MILLING LEAD ORE	0.92	LB/TON	4.170	2.090	4.170	0.050S	0.000	E6 TONS	0.62	0.31	0.0	
SEC ALUMINUM - SWEAT FURNACE	0.68	LB/TON	7.360	1.980	33.000	0.036S	0.047S	E6 TONS	0.30	0.11	0.14	
PRIMARY LEAD SMELTERS EXIST. NEW	0.99 0.85	LB/TON	3.060 3.060	1.190	790.000	0.036S	0.000	E6 TONS	0.76	0.28	0.0	
AUTSBODY INCINERATION	0.90	LB/PRD UNIT	1.970	0.540	2.000	0.039S	0.280S	E6 PU	0.29	0.11	0.82	
CLAY SINTERING	0.80	LB/TON	2.410	0.026	26.000	0.033S	0.027S	E6 TONS	0.74	0.24	0.20	
STYRENE - BUTADIENE RUBBER	0.75	LB/TON	0.700	0.120	0.700	0.003S	0.020C	E6 TONS	2.3	0.070	0.51	
FERTILIZER GTSP STORAGE	0.76	LB/TON	1.110	0.022	2.170	0.045S	0.042C	E6 TONS	1.2	0.53	0.60	
SECONDARY ZINC - DISTILLATION	0.82	LB/TON	2.710	1.700	46.000	0.035S	0.039C	E6 TONS	0.38	0.13	0.18	
COFFEE ROASTING	0.85	LB/TON	0.794	0.440	7.300	0.040S	0.000S	E6 TONS	1.5	0.62	0.0	
GLASS - 6PAL	0.80	LB/TON	2.240	0.022	2.240	0.033S	0.028S	E6 TONS	0.46	0.15	0.13	
SMOKED MEAT	0.81	LB/TON	0.300	0.100	0.300	0.040S	0.017S	E6 TONS	3.6	1.4	0.61	

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

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PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					T N 1985	T S 1985	T N 1985	TONS/YEAR T - T S N 1985	I - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985					
CEMENT PLANTS										
BLR >250 E6 BTU/HR	18749.	9548.	7161.	10464.	7179.	7173.	5200.	0.297	0.297	0.297
BLR 10-250 E6 BTU/HR	43153.	2250.	1125.	12632.	2106.	1616.	490000.	0.500	0.500	0.500
BOILERS .3-10 MM BTU/HR	7255.	1197.	599.	3157.	1276.	856.	419000.	0.620	0.620	0.620
STONE QUARRYING AND PROCESSING	1260.	827.	521.	521.	1260.	663.	597000.	0.808	0.808	0.808
GRAIN HANDLING - PROCESSING	10101.	186.	92.9	3798.	247.	156.	91100.	0.591	0.591	0.591
GRAIN HANDLING - TRANSFER	634.	212.	134.	371.	246.	135.	111000.	0.986	0.986	0.986
* BOILERS <.3 MM BTU/HR	2280.	191.	120.	1238.	221.	130.	90600.	0.897	0.897	0.897
COKE OVENS - BY PRODUCT	191.	144.	115.	115.	191.	115.	76300.	1.000	1.000	1.000
GRAIN HANDLING - SCREENING	189.	172.	124.	124.	189.	130.	59600.	0.912	0.912	0.912
WOOD WASTE BOILERS	684.	158.	99.6	371.	184.	103.	80700.	0.963	0.963	0.963
ASPHALT BATCHING	1464.	142.	71.1	650.	160.	79.4	80800.	0.907	0.907	0.907
INDUSTRIAL/COMMERCIAL INCINERATION	7826.	131.	120.	4800.	154.	129.	25000.	0.734	0.734	0.734
WOOD PULPING KRAFT	114.	40.1	24.4	24.4	114.	25.3	88400.	0.990	0.990	0.990
IRON AND STEEL - PLAST FURNACE	3706.	93.5	64.5	2269.	105.	105.	0.0	0.000	0.000	0.000
* GAS TURBINE ENGINES ELECTRIC UTILITIES	10336.	80.1	57.7	5769.	103.	103.	0.0	0.000	0.000	0.000
IRON & STEEL - EAF	82.3	22.3	17.8	17.8	82.3	17.8	64500.	1.000	1.000	1.000
LIME PROCESSING	809.	74.2	53.4	337.	70.1	61.4	8600.	0.520	0.520	0.520
PLYWOOD - VENEER	3891.	40.0	20.0	1194.	65.2	22.7	42400.	0.940	0.940	0.940
PRIMARY COPPER	1814.	42.9	21.5	709.	55.0	32.4	22600.	0.675	0.675	0.675
	557.	38.8	24.8	265.	52.2	25.7	26400.	0.968	0.968	0.968

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS						TBNs/YEAR T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
BRICK & RELATED CLAY PRODUCTS								
STEEL FOUNDRIES	2367.	39.6	26.5	1249.	50.2	37.8	12400.	0.523
SAND AND GRAVEL PROCESSING	237.	29.0	20.9	98.7	50.2	22.3	27900.	0.953
CAST IRON FOUNDRY - ELEC. FURN.	45.7	45.7	22.8	22.8	45.7	24.0	21600.	0.950
MIXED FUEL BOILERS - COAL & REFUSE	40.0	16.9	12.2	12.2	40.0	12.5	27500.	0.990
PETROLEUM REFINRY FCCU	2879.	0.23	0.23	16.6	39.3	28.9	10400.	0.268
MUNICIPAL INCINERATION	234.	42.2	29.1	107.	38.1	34.4	3600.	0.412
INTERNAL COMB ENGS DIESEL DUALFUEL	262.	41.9	25.5	109.	36.8	33.2	3600.	0.322
DIRECT FIRING OF HEATS	36.1	28.2	22.5	22.5	36.1	34.1	2000.	0.148
GLASS - SODALIME	34.0	25.5	12.8	12.8	34.0	14.5	19500.	0.920
PRIMARY ALUMINUM SMELTERS	35.3	26.0	17.4	18.5	33.3	17.6	15700.	0.989
VEGETABLE OIL PRODUCTION	523.	16.1	10.4	165.	33.1	17.5	15600.	0.691
WHISKEY	240.	25.9	18.6	136.	32.9	19.7	13100.	0.927
FERTILIZER - AMMONIUM SULFATE	43.2	17.3	11.8	18.4	27.6	13.0	14600.	0.922
CERAMIC CLAY	233.	7.9	4.4	42.8	23.8	13.9	9900.	0.510
CONCRETE BATCHING	1384.	15.3	10.2	653.	21.7	17.5	4100.	0.362
IRON AND STEEL - SINTERING	21.9	16.0	10.7	10.9	21.5	11.8	9600.	0.898
COAL CLEANING - THERMAL DRYING	1697.	15.7	11.3	947.	20.2	14.0	6200.	0.700
FERRONALLOY - SUBMERGED ARC FURNACE	1002.	16.1	8.0	388.	18.6	11.1	7400.	0.709
MINERAL WOOL	372.	16.0	11.5	230.	18.6	12.9	5600.	0.800
	135.	14.8	10.4	79.1	17.7	16.6	1000.	0.450

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985				
GRAIN HANDLING - DRYING		15.1	9.5	74.2	17.5	10.2	7300.	0.922	
PHOSPHATE ROCK - GRINDING	137.								
	34.5	11.4	5.7	12.1	16.2	5.7	10500.	0.998	
FEED MILLING - OTHER		11.0	7.8	75.9	15.5	8.2	7300.	0.951	
FERTILIZER - NITRATES	151.								
	101.	6.6	3.6	28.3	13.1	5.1	7900.	0.845	
COTTON GINNING		11.3	6.5	37.6	12.8	8.0	4700.	0.770	
BEER PROCESSING	73.2								
	31.3	6.1	3.7	9.5	12.0	4.7	7200.	0.871	
DEEP FAT FRYING		7.6	5.5	9.2	11.6	5.6	6000.	0.983	
HYDROFLUORIC ACID	19.4								
	229.	7.7	4.2	84.7	11.5	11.5	0.0	0.000	
SUGAR CANE - BAGASSE BURNING	66.4								
	66.4	9.7	4.9	28.9	11.2	8.6	2500.	0.405	
IRON & STEEL - BOF	3020.								
	3020.	8.3	6.0	1469.	10.6	10.6	0.0	0.000	
GYP SUM	886.								
	886.	9.6	6.8	592.	10.2	7.5	2700.	0.800	
CHARCOAL									
	181.	6.6	3.6	65.4	10.0	4.8	5200.	0.821	
SODIUM CARBONATE - NATURAL	764.								
	764.	2.9	1.6	124.	9.8	4.8	5000.	0.612	
PHOSPHATE ROCK - DRYING/HANDLING		6.5	3.2	134.	9.2	5.4	3700.	0.641	
MIXED FUEL BOILERS - OIL & REFUSE	377.								
	377.	0.052	0.052	1.1	9.1	1.9	7100.	0.796	
FERTILIZER - DAP	184.								
	184.	4.9	2.7	63.0	7.6	5.0	2600.	0.535	
POLYVINYL CHLORIDE	176.								
	83.3	3.6	3.6	39.2	7.6	4.0	3500.	0.890	
IRON AND STEEL - SCRAPING	152.								
	152.	5.4	3.9	84.9	7.0	4.6	2400.	0.783	
SYNTHETIC RESINS - POLYESTER	11.7								
	11.7	1.4	0.78	1.3	6.8	1.3	5500.	0.915	
POLYPROPYLENE									
	7.6	1.7	1.6	1.8	6.7	1.7	5000.	0.989	

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				TONS/YEAR T - T S N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
SYNTHETIC FIBER - DACRON 24.9		1.2	0.68	3.0	5.6	1.8	3800.	0.778
* GAS TURBINE ENGINES GAS PIPELINE 5.4		2.2	1.8	1.8	5.4	1.8	3600.	1.000
FIBERGLASS MFG.-WOOL PRODUCTS 55.0		3.3	1.2	13.7	4.9	4.9	0.0	0.000
ASPHALT SATURATOR 25.8		3.8	2.2	12.0	4.7	2.3	2300.	0.945
STARCH 16.9		3.5	1.9	7.8	4.2	2.0	2200.	0.990
SEC ALUMINUM - REVERB FURNACE 167.		2.8	1.8	73.1	4.1	2.3	1800.	0.800
WOOD PULPING SULFITE 31.8		3.5	2.4	19.5	4.0	4.0	0.0	0.000
SECONDARY COPPER - SMELTING 92.2		2.6	1.7	41.5	3.8	1.9	1800.	0.903
SYNTHETIC FIBER - NYLON 30.6		0.94	0.52	5.1	3.1	1.8	1300.	0.510
CARBON BLACK - FURNACE PROCESS 215.		2.4	1.3	92.6	3.0	2.5	500.	0.290
FEED MILLING - ALFALFA DEHYDR. 71.9		2.1	1.5	36.2	3.0	1.7	1200.	0.879
PET REF - PROC GAS COMB 2.9		1.9	1.3	1.3	2.9	1.6	1300.	0.850
EXPLOSIVES - HIGH 94.4		1.2	0.65	21.1	2.9	2.6	290.	0.129
SECONDARY COPPER - HANDLING 91.2		2.0	1.3	41.1	2.9	1.5	1300.	0.872
FRIT MANUFACTURING 8.2		1.9	1.3	4.0	2.7	1.7	940.	0.693
PAINT MANUFACTURING 2.7		2.0	0.68	0.68	2.7	0.68	1000.	0.999
DETERGENT 143.		1.7	1.7	101.	2.4	1.9	480.	0.700
SLUDGE INCINERATION 122.		1.5	0.98	23.4	2.3	2.3	0.0	-0.000
PRIMARY ZINC SMELTERS 1267.		2.1	1.3	575.	2.3	2.0	240.	0.258
FLY ASH SINTERING 621.		1.3	0.89	243.	2.3	1.3	990.	0.725

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE		EMISSIONS					T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985				
ASPHALT BLOWING	7.4	1.7	0.97	3.5	2.1	1.0	1000.	0.964	
PULPBBOARD	2.0	1.7	1.2	1.2	2.0	1.3	700.	0.854	
PHOSPHATE ROCK - CALCINING	67.9	1.1	0.55	22.9	1.6	1.0	620.	0.583	
FIBERGLASS MFG.-TEXTILE PRODUCTS	48.2	0.50	0.19	5.7	1.6	0.93	660.	0.475	
LEAD ACID BATTERY	6.4	0.97	0.58	2.4	1.6	0.59	990.	0.996	
PERLITE	7.6	1.2	0.81	3.2	1.6	0.96	600.	0.807	
PHOSPHORIC ACID - THERMAL PROCESS	86.7	1.3	0.70	41.5	1.5	0.75	720.	0.941	
SECONDARY LEAD - REVERB	92.0	1.6	1.2	51.0	1.4	1.3	20.0	0.160	
CASTABLE REFRACTORY	59.9	0.82	0.55	26.3	1.3	1.2	90.0	0.132	
MINING/MILLING LEAD ORE	1.2	1.2	0.60	0.60	1.2	0.90	290.	0.499	
SEC ALUMINUM - SWEAT FURNACE	5.0	0.76	0.49	2.2	1.1	0.65	450.	0.731	
PRIMARY LEAD SMELTERS	272.	1.2	0.64	164.	1.1	0.80	250.	0.611	
AUTOREDDY INCINERATION	1.0	0.26	0.16	0.16	0.99	0.39	600.	0.726	
CLAY SINTERING	9.6	0.71	0.48	5.2	0.91	0.48	420.	0.989	
STYRENE - BUTADIENE RUBBER	0.75	0.62	0.60	0.60	0.75	0.62	120.	0.829	
FERTILIZER GTSP STORAGE	1.5	0.50	0.27	0.54	0.75	0.28	460.	0.980	
SECONDARY ZINC - DISTILLATION	10.5	0.42	0.27	4.7	0.62	0.49	120.	0.373	
COFFEE ROASTING	4.8	0.52	0.31	2.9	0.52	0.43	90.0	0.446	
GLASS - OPAL	0.52	0.41	0.27	0.27	0.52	0.28	240.	0.990	
SMOKED MEAT	0.51	0.44	0.26	0.26	0.51	0.35	160.	0.667	

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985				
SECONDARY ZINC - SWEATING	2.8	0.32	0.21	1.3	0.46	0.26	190.	0.774	
ANIMAL FEED DEFLUORINATION	56.2	0.41	0.25	33.8	0.41	0.25	160.	0.986	
BRASS & BRONZE SMELTING	10.5	0.49	0.31	6.7	0.38	0.33	40.0	0.767	
* BRICKARD HEATERS	0.27	0.21	0.14	0.14	0.27	0.14	120.	1.000	
SECONDARY LEAD - BLAST	18.7	0.22	0.17	10.4	0.20	0.20	6.1	0.160	
SOAP	3.2	0.18	0.099	1.8	0.18	0.10	70.0	0.964	
PATHOLOGICAL INCINERATION	0.37	0.10	0.062	0.17	0.12	0.091	20.0	0.500	
FISH MEAL PROCESSING	0.058	0.058	0.054	0.054	0.058	0.054	4.2	0.900	
SEC MAGNESIUM	0.056	0.049	0.032	0.032	0.056	0.034	20.0	0.900	
SECONDARY LEAD - PGT FURNACE	0.041	0.030	0.023	0.023	0.041	0.023	10.0	0.970	

$$\underline{T_S - T_N}$$

PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE E S	EMISSION RATES		UNCONT E U	GROWTH RATES DECIMAL/YR			UNITS/YR	CAPACITY/PRODUCTION			C 1985
				E N	P B		P B	P C	A 1975		B 1985			
BOILERS 3-10 MM BTU/HR	0.25	LB/E6 BTU	0.250	0.048	0.250	0.037S	0.043C	0.043C	0.043C	E12 BTU	26471.	9794.	13857.	
BLR >250 E6 BTU/HR	0.58	LB/E6 BTU	0.277	0.050	3.110	0.050S	0.055C	0.055C	0.055C	E12 BTU	28011.	14006.	19836.	
EXIST- NEW	0.58		0.100											
BLR 10-250 E6 BTU/HR	0.32	LB/E6 BTU	0.383	0.127	2.020	0.050S	0.014C	0.014C	0.014C	E12 BTU	19534.	9767.	2914.	
EXIST- NEW	0.32		0.334											
GRAIN HANDLING - PROCESSING	0.82	LB/TON	2.160	0.030	6.000	0.037S	0.015C	0.015C	0.015C	E6 TONS	240.	88.7	38.5	
STONE QUARRYING AND PROCESSING	0.80	LB/TON	0.379	0.155	15.500	0.050S	0.033S	0.033S	0.033S	E6 TONS	1225.	613.	404.	
GRAIN HANDLING - TRANSFER	0.82	LB/TON	1.940	0.200	20.000	0.037S	0.015C	0.015C	0.015C	E6 TONS	240.	88.7	38.5	
INDUSTRIAL/COMMERCIAL INCINERATION	0.38	LB/TON	6.470	0.065	6.470	0.039S	0.110C	0.110C	0.110C	E6 TONS	32.6	12.7	60.0	
WOOD WASTE BOILERS	0.58	LB/TON	3.010	0.280	27.500	0.050S	0.012C	0.012C	0.012C	E6 TONS	163.	81.4	20.6	
GRAIN HANDLING - SCREENING	0.82	LB/TON	1.610	0.060	6.000	0.037S	0.015C	0.015C	0.015C	E6 TONS	240.	88.7	38.5	
BOILERS <3 MM BTU/HR	0.30	LB/E6 BTU	0.039	0.000	0.039	0.020S	0.029C	0.029C	0.029C	E12 BTU	24572.	4914.	8131.	
GAS TURBINE ENGINES ELECTRIC UTILITIES	0.22	LB/TON	3.740	0.000	3.740	0.020S	0.270S	0.270S	0.270S	E6 TONS	54.1	10.8	146.	
COKE OVENS - BY PRODUCT	0.93	LB/TON	4.900	0.430	4.900	0.028S	0.010S	0.010S	0.010S	E6 TONS	75.5	21.1	7.5	
LIME PROCESSING	0.90	LB/TON	3.400	0.203	203.000	0.050S	0.050C	0.050C	0.050C	E6 TONS	26.1	13.1	16.4	
STEEL FOUNDRIES	0.90	LB/TON	2.200	0.104	10.400	0.028S	0.073S	0.073S	0.073S	E6 TONS	29.3	8.2	21.4	
CAST IRON FOUNDRY - ELEC. FURN.	0.93	LB/TON	4.500	0.045	4.500	0.028S	0.136S	0.136S	0.136S	E6 TONS	8.1	2.3	11.0	
PRIMARY COPPER	0.85	LB/TON	37.900	1.220	405.000	0.036S	0.030C	0.030C	0.030C	E6 TONS	2.4	0.87	0.83	
ASPHALT BATCHING	0.47	LB/TON	0.376	0.045	15.000	0.008S	0.050S	0.050S	0.050S	E6 TONS	1480.	118.	740.	
EXIST- NEW	0.47		0.169											
PLYWOOD - VENEER	0.95	LB/TON	0.004	0.001	0.132	0.050S	0.025C	0.025C	0.025C	E6 TONS	22600.	11300.	6330.	
SAND AND GRAVEL PROCESSING	0.80	LB/TON	0.100	0.005	0.100	0.050S	0.000S	0.000S	0.000S	E6 TONS	1142.	571.	0.0	
DIRECT FIRING OF HEATS	0.62	LB/TON	2445.000	195.600	2445.000	0.050S	0.033S	0.033S	0.033S	E6 TONS	0.034	0.017	0.011	

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES			CAPACITY/PRODUCTION			C
			ALLOWABLE E	N	UNCENT E	P	B	P	A	B	1985
GLASS - SODALINE	0.80	LB/TON	1.890	0.020	2.000	0.033S	0.028S	E6 TONS	34.4	11.4	9.6
PRIMARY ALUMINUM SMELTERS	0.92	LB/TON	5.820	1.800	92.000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4
WHISKEY	0.95	LB/PRD UNT	27.900	2.180	43.600	0.032S	0.060S	E6 PU	1.3	0.42	0.78
VEGETABLE OIL PRODUCTION	0.92	LB/TON	8.630	0.630	63.000	0.028S	0.027S	E6 TONS	6.5	1.8	1.8
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	2.770	1.320	130.500	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
PHOSPHATE ROCK - GRINDING	0.94	LB/TON	0.940	0.002	2.000	0.050S	0.043S	E6 TONS	25.7	12.8	11.1
PIXED FUEL BOILERS - COAL & REFUSE	0.58	LB/TON	5.000	3.660	366.000	0.000S	17.290S	E6 TONS	0.16	0.0	27.0
FERTILIZER - AMMONIUM SULFATE	0.84	LB/TON	2.040	1.000	20.000	0.045S	0.116C	E6 TONS	9.3	4.2	18.5
CONCRETE BATCHING	1.00	LB/TON	0.098	0.010	0.100	0.033S	0.030C	E6 TONS	327.	108.	112.
IRON & STEEL - EAF	0.90	LB/TON	4.490	0.480	28.300	0.028S	0.073S	E6 TONS	36.7	10.3	26.8
NEW	0.90		1.000								
FERTILIZER - NITRATES	0.77	LB/TON	1.640	0.254	12.720	0.045S	0.070C	E6 TONS	10.5	4.7	10.2
COAL CLEANING - THERMAL DRYING	0.59	LB/TON	0.410	0.099	19.800	0.050S	0.029S	E6 TONS	133.	66.5	38.6
NEW	0.59		0.340								
GRAIN HANDLING - DRYING	0.82	LB/TON	0.770	0.060	6.000	0.037S	0.015C	E6 TONS	47.9	17.7	7.7
FEED MILLING - OTHER	0.50	LB/TON	2.060	0.100	20.000	0.029S	0.035C	E6 TONS	21.4	6.2	8.8
BEER PROCESSING	0.81	LB/TON	2.090	0.270	5.450	0.040S	0.070C	E6 TONS	7.2	2.9	7.0
MIXED FUEL BOILERS - OIL & REFUSE	0.58	LB/TON	5.000	1.020	101.500	0.000S	17.290S	E6 TONS	0.036	0.0	6.2
IRON AND STEEL - SINTERING	0.90	LB/TON	0.500	0.150	42.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2
DEEP FAT FRYING	0.81	LB/TON	7.130	0.119	11.900	0.026S	0.043C	E6 TONS	2.6	0.74	1.4
FERRALLBY - SURMERGED ARC FURNACE	0.90	LB/TON	22.800	4.560	456.000	0.028S	0.015C	E6 TONS	1.6	0.44	0.25
SYNTHETIC RESINS - POLYESTER	0.68	LB/TON	4.100	0.350	7.000	0.045S	0.170C	E6 TONS	1.0	0.46	3.9

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E _S	UNCNT E _N	P _B	P _C	UNITS/YR	A 1975	B 1985	
CHARCOAL	0.85	LB/TON	19.500	3.500	0.0455	0.0430	E6 TONS	0.79	0.36	0.42
CEMENT PLANTS EXIST. NEW	0.90 0.90	LB/TON	206.000 0.640	0.450	0.0255	0.0300	E6 TONS	103.	25.8	35.4
POLYPROPYLENE	0.78	LB/TON	2.670	0.030	0.0035	0.1500	E6 TONS	1.6	0.048	4.9
SODIUM CARBONATE - NATURAL	0.87	LB/TON	1.160	0.450	0.0455	0.1300	E6 TONS	5.8	2.6	13.8
COTTON GINNING	1.00	LB/BALE	2.090	0.480	0.0425	0.0135	E6 BALE	10.8	4.5	1.4
CERAMIC CLAY	0.80	LB/TON	2.750	1.755	0.0335	0.0425	E6 TONS	13.9	4.6	5.8
SYNTHETIC FIBER - DACRON	0.68	LB/TON	1.580	0.350	0.0455	0.1640	E6 TONS	2.3	1.0	8.2
PHOSPHATE ROCK - DRYING/HANDLING	0.87	LB/TON	0.340	0.122	0.0505	0.0415	E6 TONS	43.9	21.9	18.0
PETROLEUM REFINRY FCCU EXIST. NEW	0.85 0.85	LB/TON	0.066 0.017	0.010	0.0315	0.0420	E6 TONS	1506.	467.	766.
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	1.180	0.000	0.0205	0.1455	E6 TONS	4.4	0.88	6.4
MUNICIPAL INCINERATION EXIST. NEW	0.56 0.56	LB/TON	4.600 1.460	0.990	0.0395	0.0465	E6 TONS	32.5	12.7	14.9
POLYVINYL CHLORIDE	0.82	LB/TON	3.180	0.350	0.0005	0.0780	E6 TONS	2.7	0.0055	3.1
GYPSUM	0.80	LB/TON	1.510	0.302	0.0295	0.0065	E6 TONS	15.9	4.7	0.91
FERTILIZER - DAP	0.89	LB/TON	3.530	1.640	0.0455	0.0545	E6 TONS	3.1	1.4	1.7
SUGAR CANE - BAGASSE BURNING	0.75	LB/TON	3.700	2.200	0.0505	0.0155	E6 TONS	7.0	3.5	1.0
IRON AND STEEL - SCARFING	0.90	LB/TON	0.138	0.030	0.0285	0.0295	E6 TONS	87.3	24.4	25.3
ASPHALT SATURATOR	0.90	LB/TON	1.330	0.073	0.0425	0.0255	E6 TONS	6.3	2.6	1.6
STARCH	0.83	LB/TON	2.000	0.020	0.0455	0.0180	E6 TONS	4.3	1.9	0.83
INTERNAL COMB ENGS DIESEL DUALFUEL	0.58	LB/TON	5.410	4.610	0.0205	0.0285	E6 TONS	18.0	3.6	5.0
PAINT MANUFACTURING	0.83	LB/TON	1.000	0.001	0.0675	0.0260	E6 TONS	4.9	3.3	1.5

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT		GROWTH RATES DECIMAL/YR			UNITS/YR	CAPACITY/PRODUCTION		
			ALLOWABLE E S	E N	E U	P B	P C				A 1975	B 1985	C 1985
SECONDARY COPPER - SMELTING	0.82	LB/TON	3.470	0.338	84.600	0.0355	0.037C	E6 TONS			1.8	0.64	0.82
SEC ALUMINUM - REVERB FURNACE	0.82	LB/TON	4.800	0.960	195.000	0.036S	0.047S	E6 TONS			1.4	0.51	0.67
SYNTHETIC FIBER - NYLON	0.72	LB/TON	1.530	0.750	15.000	0.045S	0.127C	E6 TONS			1.7	0.77	4.0
PET REF - PROC GAS CMB	0.85	LB/E6 BTU	20.000	3.000	20.000	0.031S	0.042C	E12 BTU			0.23	0.070	0.12
SECONDARY COPPER - HANDLING	0.82	LB/TON	6.640	0.848	212.000	0.035S	0.037C	E6 TONS			0.73	0.25	0.32
FEED MILLING - ALFALFA DEHYDR.	0.50	LB/TON	2.060	0.250	50.000	0.029S	0.035C	E6 TONS			4.1	1.2	1.7
ASPHALT BLOWING	0.90	LB/TON	1.180	0.042	4.200	0.042S	0.025S	E6 TONS			3.1	1.3	0.79
MINERAL WOOL	0.82	LB/TON	4.270	3.630	32.400	0.029S	0.020S	E6 TONS			8.4	2.5	1.7
FLY ASH SINTERING	0.86	LB/TON	0.400	0.110	110.000	0.033S	0.055C	E6 TONS			7.7	2.5	5.4
LEAD ACID BATTERY	0.76	LB/PRD UNIT	0.032	0.000	0.130	0.040S	0.050C	E6 PU			80.0	32.0	50.3
FRIT MANUFACTURING	0.80	LB/TON	5.800	1.780	17.800	0.033S	0.037S	E6 TONS			0.84	0.28	0.31
PHOSPHORIC ACID - THERMAL PROCESS	0.81	LB/TON	2.270	0.134	134.000	0.045S	0.014C	E6 TONS			1.4	0.63	0.21
PULPBBOARD	0.98	LB/TON	0.096	0.014	0.096	0.031S	0.015C	E6 TONS			37.2	11.5	6.0
FIBERGLASS MFG.-TEXTILE PRODUCTS	0.70	LB/TON	2.780	1.460	84.000	0.063S	0.122C	E6 TONS			0.52	0.32	1.1
PHOSPHATE ROCK - CALCINING	0.90	LB/TON	0.960	0.400	40.000	0.050S	0.048S	E6 TONS			2.5	1.3	1.2
AUTOBODY INCINERATION	0.90	LB/PRD UNIT	1.970	0.540	2.000	0.039S	0.280S	E6 PU			0.29	0.11	0.82
PERLITE	0.82	LB/TON	4.350	0.840	21.000	0.029S	0.036S	E6 TONS			0.65	0.19	0.23
CARBON BLACK - FURNACE PROCESS	0.77	LB/TON	3.100	2.200	220.000	0.045S	0.025C	E6 TONS			2.0	0.89	0.56
DETERGENT	0.90	LB/TON	1.500	0.450	90.000	0.000S	0.035C	E6 TONS			2.5	0.0	1.0
FERTILIZER GTSP STORAGE	0.76	LB/TON	1.110	0.022	2.170	0.045S	0.042C	E6 TONS			1.2	0.53	0.60
SEC ALUMINUM - SHEET FURNACE	0.68	LB/TON	7.360	1.980	33.000	0.036S	0.047S	E6 TONS			0.30	0.11	0.14

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E _S	E _N	UNCENT E _U	P _B	P _C	A 1975	B 1985	
CLAY SINTERING	0.80	LB/TON	2.410	0.026	26.000	0.0335	0.0275	0.74	0.24	0.20
PILING/MILLING LEAD BURE	0.92	LB/TON	4.170	2.090	4.170	0.0505	0.000	0.62	0.31	0.0
EXPLOSIVES - HIGH	0.83	LB/TON	1.550	1.350	50.400	0.0455	0.094C	1.8	0.83	2.7
PRIMARY LEAD SMELTERS EXIST. NEW	0.99 0.85	LB/TON	3.060 3.060	1.190	790.000	0.0365	0.000	0.76	0.28	0.0
GLASS - 8PAL	0.80	LB/TON	2.240	0.022	2.240	0.0335	0.0285	0.46	0.15	0.13
PRIMARY ZINC SMELTERS EXIST. NEW	0.83 0.83	LB/TON	3.860 2.250	1.670	1665.000	0.0365	0.035C	1.3	0.47	0.53
SECONDARY ZINC - SWEATING	0.82	LB/TON	3.860	0.372	23.600	0.0355	0.039C	0.20	0.070	0.093
ANIMAL FEED DEFLUORINATION	0.90	LB/TON	4.570	0.063	625.000	0.0405	0.0005	0.20	0.080	0.0
SMOKED MEAT	0.81	LB/TON	0.300	0.100	0.300	0.0405	0.0175	3.6	1.4	0.61
BRICK/CLAY HEATERS	1.00	LB/TON	0.007	0.000	0.007	0.0335	0.0285	60.0	19.8	16.8
SECONDARY ZINC - DISTILLATION	0.82	LB/TON	2.710	1.700	46.000	0.0355	0.039C	0.38	0.13	0.18
STYRENE - BUTADIENE RUBBER	0.75	LB/TON	0.700	0.120	0.700	0.0335	0.020C	2.3	0.070	0.51
CASTABLE REFRACTORY	0.80	LB/TON	5.320	4.620	254.000	0.0335	0.043C	0.39	0.13	0.20
COFFEE ROASTING	0.85	LB/TON	0.794	0.440	7.300	0.0405	0.0005	1.5	0.62	0.0
SOAP	0.90	LB/TON	0.724	0.026	13.000	0.0455	0.0005	0.55	0.25	0.0
BRASS & BRONZE SMELTING EXIST. NEW	0.80 0.80	LB/TON	3.250 1.200	0.280	70.000	0.0365	0.0005	0.38	0.13	0.0
PATHOLOGICAL INCINERATION EXIST. NEW	0.34 0.34	LB/TON	4.600 3.900	1.900	12.800	0.0395	0.026C	0.13	0.051	0.038
SECONDARY LEAD - REVERB EXIST. NEW	0.68 0.68	LB/TON	6.440 1.250	1.050	277.000	0.0245	0.032C	0.71	0.17	0.26
SEC MAGNESIUM	0.82	LB/TON	6.780	0.680	6.780	0.0355	0.0165	0.017	0.0061	0.0028

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCNT E U	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION			INDUSTRY
			ALLOWABLE E S	E N		P B	C P	UNITS/YR	A 1975	B 1985	C 1985	
SECONDARY LEAD - PBT FURNACE	0.68	LB/TON	1.360	0.041	1.360	0.024S	0.032C	E6 TONS	0.065	0.016	0.024	
SECONDARY LEAD - BLAST	0.68	LB/TON	4.350	1.050	271.000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055	
EXIST- NEW:	0.68		1.250									
FISH MEAL PROCESSING	0.81	LB/TON	0.400	0.040	0.400	0.008S	0.000C	E6 TONS	0.36	0.029	0.0	
FIBERGLASS MFG.-H98L PRODUCTS	0.70	LB/TON	8.640	8.440	96.000	0.063S	0.042C	E6 TONS	1.1	0.68	0.55	
HYDROFLUORIC ACID	0.98	LB/TON	35.000	35.000	700.000	0.045S	0.045S	E6 TONS	0.45	0.20	0.22	
SLUDGE INCINERATION	0.50	LB/TON	5.000	1.600	119.000	0.033S	0.250S	E6 TONS	1.2	0.39	2.9	
EXIST- NEW:	0.50		1.600									
IRON AND STEEL - BLAST FURNACE	0.90	LB/TON	1.500	1.500	150.000	0.028S	0.029S	E6 TONS	119.	33.2	34.4	
IRON & STEEL - RBF	0.90	LB/TON	0.208	0.150	51.000	0.026S	0.048S	E6 TONS	88.9	24.9	42.7	
EXIST- NEW:	0.90		0.150									
K98D PULPING KRAFT	0.98	LB/TON	5.630	5.630	198.000	0.031S	0.012C	E6 TONS	33.9	10.5	4.3	
K98D PULPING SULFITE	0.98	LB/TON	3.000	3.000	24.000	0.031S	0.012C	E6 TONS	2.4	0.74	0.37	

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1935	T A 1975	EMISSIONS			T N 1985	TONS/YEAR T S N 1985	1 - E / E N
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985			
BOILERS 3-10 MM BTU/HR								
BLR >250 E6 BTU/HR	1260.	827.	521.	521.	1260.	663.	597000.	0.808
BLR 10-250 E6 BTU/HR	43153.	2250.	1125.	12632.	2106.	1616.	490000.	0.500
GRAIN HANDLING - PROCESSING	7255.	1197.	599.	3157.	1276.	856.	419000.	0.620
STONE QUARRYING AND PROCESSING	684.	212.	134.	371.	246.	135.	111000.	0.986
GRAIN HANDLING - TRANSFER	10101.	186.	92.9	3798.	247.	156.	91100.	0.591
INDUSTRIAL/COMMERCIAL INCINERATION	2280.	191.	120.	1238.	221.	130.	90600.	0.897
WOOD WASTE BOILERS	114.	40.1	24.4	24.4	114.	25.3	88400.	0.990
GRAIN HANDLING - SCREENING	1464.	142.	71.1	650.	160.	79.4	80800.	0.907
BOILERS <3 MM BTU/HR	684.	158.	99.6	371.	184.	103.	80700.	0.963
* GAS TURBINE ENGINES ELECTRIC UTILITIES	191.	144.	115.	115.	191.	115.	76300.	1.000
* COKE OVENS - BY PRODUCT	82.3	22.3	17.8	17.8	82.3	17.8	64500.	1.000.
LIME PROCESSING	189.	172.	124.	124.	189.	130.	59600.	0.912
STEEL FOUNDRIES	3891.	40.0	20.0	1194.	65.2	22.7	42400.	0.940
CAST IRON FOUNDRY - ELEC. FURN.	237.	29.0	20.9	93.7	50.2	22.3	27900.	0.953
PRIMARY COPPER	40.0	16.9	12.2	12.2	40.0	12.5	27500.	0.990
ASPHALT BATCHING	557.	38.9	24.8	265.	52.2	25.7	26400.	0.968
PLYWOOD - VENEER	7826.	131.	120.	4800.	154.	129.	25000.	0.734
SAND AND GRAVEL PROCESSING	1814.	42.9	21.5	703.	55.0	32.4	22600.	0.675
DIRECT FIRING OF HEATS	45.7	45.7	22.8	22.8	45.7	24.0	21600.	0.950
	34.0	25.5	12.8	12.8	34.0	14.5	19500.	0.920

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS			T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985			
GLASS - SODALIME	35.3	26.0	17.4	18.5	33.3	17.6	15700.	0.989
PRIMARY ALUMINUM SMELTERS	523.	16.1	10.4	165.	33.1	17.5	15600.	0.691
WHISKEY	43.2	17.3	11.8	18.4	27.6	13.0	14600.	0.922
VEGETABLE OIL PRODUCTION	240.	25.9	18.6	136.	32.9	19.7	13100.	0.927
BRICK & RELATED CLAY PRODUCTS	2367.	39.6	26.5	124.9	50.2	37.8	12400.	0.523
PHOSPHATE ROCK - GRINDING	34.5	11.4	5.7	12.1	16.2	5.7	10500.	0.998
MIXED FUEL BOILERS - COAL & REFUSE	2873.	0.23	0.23	16.6	39.3	28.9	10400.	0.268
FERTILIZER - AMMONIUM SULFATE	233.	7.9	4.4	42.8	23.8	13.9	9900.	0.510
CONCRETE BATCHING	21.9	16.0	10.7	10.9	21.5	11.8	9600.	0.898
IRON & STEEL - EAF	809.	74.2	53.4	337.	70.1	61.4	8600.	0.520
FERTILIZER - NITRATES	101.	6.6	3.6	28.3	13.1	5.1	7900.	0.845
COAL CLEANING - THERMAL DRYING	1002.	16.1	8.0	388.	18.6	11.1	7400.	0.709
GRAIN HANDLING - DRYING	137.	15.1	9.5	74.2	17.5	10.2	7300.	0.922
FEED MILLING - OTHER	151.	11.0	7.8	75.9	15.5	8.2	7300.	0.951
BEER PROCESSING	31.3	6.1	3.7	9.5	12.0	4.7	7200.	0.871
MIXED FUEL BOILERS - OIL & REFUSE	184.	0.052	0.052	1.1	9.1	1.9	7100.	0.796
IRON AND STEEL - SINTERING	1697.	15.7	11.3	94.7	20.2	14.0	6200.	0.700
DEEP FAT FRYING	13.4	7.6	5.5	9.2	11.6	5.6	6000.	0.983
FERRALLOY - SUBMERGED ARC FURNACE	372.	16.0	11.5	230.	18.6	12.9	5600.	0.800
SYNTHETIC RESINS - POLYESTER	11.7	1.4	0.78	1.3	6.8	1.3	5500.	0.915

PARTICULATES

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS			T S 1985	T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985				
CHARCOAL	181.	6.6	3.6	65.4	10.0	4.8	5200.	0.821	
CEMENT PLANTS	12749.	9548.	7161.	10464.	7179.	7173.	5200.	0.297	
POLYPROPYLENE	7.6	1.7	1.6	1.8	6.7	1.7	5000.	0.989	
SODIUM CARBONATE - NATURAL	764.	2.9	1.6	124.	9.8	4.8	5000.	0.612	
COTTON GINNING	73.2	11.3	6.5	37.6	12.8	8.0	4700.	0.770	
CERAMIC CLAY	1384.	15.3	10.2	653.	21.7	17.5	4100.	0.362	
SYNTHETIC FIBER - DACRON	24.9	1.2	0.68	3.0	5.6	1.8	3800.	0.778	
PHOSPHATE ROCK - DRYING/HANDLING	377.	6.5	3.2	134.	9.2	5.4	3700.	0.641	
PETROLEUM REFINRY FCCU	234.	42.2	29.1	107.	38.1	34.4	3600.	0.412	
GAS TURBINE ENGINES GAS PIPELINE	5.4	2.2	1.8	1.8	5.4	1.8	3600.	1.000	
MUNICIPAL INCINERATION	262.	41.9	25.5	109.	36.8	33.2	3600.	0.322	
POLYVINYL CHLORIDE	83.3	3.6	3.6	39.2	7.6	4.0	3500.	0.890	
GYPSUM	886.	9.6	6.8	592.	10.2	7.5	2700.	0.800	
FERTILIZER - DAP	176.	4.9	2.7	63.0	7.6	5.0	2600.	0.535	
SUGAR CANE - BAGASSE BURNING	66.4	9.7	4.9	28.9	11.2	8.6	2500.	0.405	
IRON AND STEEL - SCARFING	152.	5.4	3.9	84.9	7.0	4.6	2400.	0.783	
ASPHALT SATURATOR	25.8	3.8	2.2	12.0	4.7	2.3	2300.	0.945	
STARCH	16.9	3.5	1.9	7.8	4.2	2.0	2200.	0.990	
INTERNAL COMB ENGS DIESEL DUALFUEL	36.1	28.2	22.5	22.5	36.1	34.1	2000.	0.148	
PAINT MANUFACTURING	2.7	2.0	0.68	0.68	2.7	0.68	1900.	0.999	

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS				T S 1985	T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985				
SECONDARY COPPER - SMELTING 92.2	2.6	1.7	41.5	3.8	1.9	1800.	0.903	
SEC ALUMINUM - REVERB FURNACE 167.	2.8	1.8	73.1	4.1	2.3	1800.	0.800	
SYNTHETIC FIBER - NYLON 30.6	0.94	0.52	5.1	3.1	1.8	1300.	0.510	
PET REF - PROC GAS COMB 2.9	1.9	1.3	1.3	2.9	1.6	1300.	0.850	
SECONDARY COPPER - HANDLING 91.2	2.0	1.3	41.1	2.9	1.5	1300.	0.872	
FEED MILLING - ALFALFA DEHYDR. 71.9	2.1	1.5	36.2	3.0	1.7	1200.	0.879	
ASPHALT BLOWING 7.4	1.7	0.97	3.5	2.1	1.0	1000.	0.964	
MINERAL WOOL 135.	14.8	10.4	79.1	17.7	16.6	1000.	0.150	
FLY ASH SINTERING 621.	1.3	0.89	24.3	2.3	1.3	990.	0.725	
LEAD ACID BATTERY 6.4	0.97	0.58	2.4	1.6	0.59	990.	0.916	
FRIT MANUFACTURING 8.2	1.9	1.3	4.0	2.7	1.7	940.	0.693	
PHOSPHORIC ACID - THERMAL PROCESS 86.7	1.3	0.70	41.5	1.5	0.75	720.	0.941	
PULPBARD 2.0	1.7	1.2	1.2	2.0	1.3	700.	0.854	
FIBERGLASS MFG.-TEXTILE PRODUCTS 48.2	0.50	0.19	5.7	1.6	0.93	660.	0.475	
PHOSPHATE ROCK - CALCINING 67.9	1.1	0.55	22.9	1.6	1.0	620.	0.583	
AUTOBODY INCINERATION 1.0	0.26	0.16	0.16	0.99	0.39	600.	0.726	
PERLITE 7.6	1.2	0.81	3.9	1.6	0.96	600.	0.807	
CARBON BLACK - FURNACE PROCESS 215.	2.4	1.3	92.6	3.0	2.5	500.	0.290	
DETERGENT 143.	1.7	1.7	101.	2.4	1.9	480.	0.700	
FERTILIZER GTSP STORAGE 1.5	0.50	0.27	0.54	0.75	0.28	460.	0.980	

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				TONS/YEAR T - T S N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
SEC ALUMINUM - SWEAT FURNACE	5.0	0.76	0.49	2.2	1.1	0.65	450.	0.731
CLAY SINTERING	9.8	0.71	0.48	5.2	0.91	0.48	420.	0.989
MINING/MILLING LEAD BRE	1.2	1.2	0.60	0.60	1.2	0.90	290.	0.499
EXPLOSIVES - HIGH	94.4	1.2	0.65	21.1	2.9	2.6	290.	0.129
PRIMARY LEAD SMELTERS	272.	1.2	0.64	164.	1.1	0.80	250.	0.611
GLASS - OPAL	0.52	0.41	0.27	0.27	0.52	0.28	240.	0.990
PRIMARY ZINC SMELTERS	1267.	2.1	1.3	575.	2.3	2.0	240.	0.258
SECONDARY ZINC - SWEATING	2.8	0.32	0.21	1.3	0.46	0.26	190.	0.774
ANIMAL FEED DEFLUORINATION	56.2	0.41	0.25	33.8	0.41	0.25	160.	0.986
SMOKED MEAT	0.51	0.44	0.26	0.26	0.51	0.35	160.	0.667
BRCHARD HEATERS	0.27	0.21	0.14	0.14	0.27	0.14	120.	1.000
SECONDARY ZINC - DISTILLATION	10.5	0.42	0.27	4.7	0.62	0.49	120.	0.373
STYRENE - BUTADIENE RUBBER	0.75	0.62	0.60	0.60	0.75	0.62	120.	0.829
CASTABLE REFRACTORY	59.9	0.82	0.55	26.3	1.3	1.2	90.0	0.132
COFFEE ROASTING	4.8	0.52	0.31	2.9	0.52	0.43	90.0	0.446
SOAP	3.2	0.18	0.099	1.8	0.18	0.10	70.0	0.964
BRASS & BRONZE SMELTING	10.5	0.49	0.31	6.7	0.38	0.33	40.0	0.767
PATHOLOGICAL INCINERATION	0.37	0.10	0.062	0.17	0.12	0.091	20.0	0.500
SECONDARY LEAD - REVERB	92.0	1.6	1.2	51.0	1.4	1.3	20.0	0.160
SEC MAGNESIUM	0.056	0.049	0.032	0.032	0.056	0.034	20.0	0.900

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS			T N 1985	TONS/YEAR T-S-N 1985	1 - E/E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985			
SECONDARY LEAD - POT FURNACE	0.041	0.030	0.023	0.023	0.041	0.023	10.0	0.970
SECONDARY LEAD - BLAST	18.7	0.22	0.17	10.4	0.20	0.20	6.1	0.160
FISH MEAL PROCESSING	0.058	0.058	0.054	0.054	0.058	0.054	4.2	0.900
FIBERGLASS MFG.-W60L PRODUCTS	55.0	3.3	1.2	13.7	4.9	4.9	0.0	0.000
HYDROFLUORIC ACID	229.	7.7	4.2	34.7	11.5	11.5	0.0	0.000
SLUDGE INCINERATION	122.	1.5	0.98	23.4	2.3	2.3	0.0	-0.000
IRON AND STEEL - BLAST FURNACE	10336.	80.1	57.7	5769.	103.	103.	0.0	0.000
IRON & STEEL - BOF	3020.	8.3	6.0	1469.	10.6	10.6	0.0	0.000
WOOD PULPING KRAFT	3706.	93.5	64.5	2269.	105.	105.	0.0	0.000
WOOD PULPING SULFITE	31.8	3.5	2.4	19.5	4.0	4.0	0.0	0.000

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PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCENT E	GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
			F S	N		P	B	C	A 1975	B 1985	C 1985
CEMENT PLANTS											
EXIST=	0.90	LB/TON	206.000	0.450	301.000	0.025S	0.030C	0.030C	103.	25.8	35.4
NEW=	0.90		0.640								
BLR >250 E6 BTU/HR											
EXIST=	0.58	LB/E6 BTU	0.277	0.050	3.110	0.050S	0.055C	0.055C	28011.	14006.	19336.
NEW=	0.58		0.100								
BLR 10-250 E6 BTU/HR											
EXIST=	0.32	LB/E6 BTU	0.383	0.127	2.020	0.050S	0.014C	0.014C	19534.	9767.	2914.
NEW=	0.32		0.334								
BOILERS 3-10 MM BTU/HR											
EXIST=	0.25	LB/E6 BTU	0.250	0.048	0.250	0.037S	0.043C	0.043C	26471.	9794.	13857.
NEW=	0.25		0.250								
STONE QUARRYING AND PROCESSING											
EXIST=	0.80	LB/TON	0.379	0.155	15.500	0.050S	0.033S	0.033S	1225.	613.	404.
NEW=	0.80		0.379								
GRAIN HANDLING - PROCESSING											
EXIST=	0.82	LB/TON	2.160	0.030	6.000	0.037S	0.015C	0.015C	240.	88.7	38.5
NEW=	0.82		2.160								
GRAIN HANDLING - TRANSFER											
EXIST=	0.82	LB/TON	1.940	0.200	20.000	0.037S	0.015C	0.015C	240.	88.7	38.5
NEW=	0.82		1.940								
COKE OVENS - BY PRODUCT											
EXIST=	0.93	LB/TON	4.900	0.430	4.900	0.028S	0.010S	0.010S	75.5	21.1	7.5
NEW=	0.93		4.900								
ASPHALT BATCHING											
EXIST=	0.47	LB/TON	0.376	0.045	15.000	0.008S	0.050S	0.050S	1480.	118.	740.
NEW=	0.47		0.169								
BOILERS <3 MM BTU/HR											
EXIST=	0.30	LB/E6 BTU	0.039	0.000	0.039	0.020C	0.029C	0.029C	24572.	4914.	8131.
NEW=	0.30		0.039								
PULPING KRAFT											
EXIST=	0.98	LB/TON	5.630	5.630	198.000	0.031S	0.012C	0.012C	33.9	10.5	4.3
NEW=	0.98		5.630								
IRON AND STEEL - BLAST FURNACE											
EXIST=	0.50	LB/TON	1.500	1.500	150.000	0.026S	0.029S	0.029S	119.	33.2	34.4
NEW=	0.50		1.500								
GRAIN HANDLING - SCREENING											
EXIST=	0.82	LB/TON	1.610	0.060	6.000	0.037S	0.015C	0.015C	240.	88.7	38.5
NEW=	0.82		1.610								
WASTE BOILERS											
EXIST=	0.58	LB/TON	3.010	0.280	27.500	0.050S	0.012C	0.012C	163.	81.4	20.6
NEW=	0.58		3.010								
IRON & STEEL - EAF											
EXIST=	0.90	LB/TON	4.490	0.430	28.300	0.026S	0.073S	0.073S	36.7	10.3	26.8
NEW=	0.90		1.000								
BRICK & RELATED CLAY PRODUCTS											
EXIST=	0.80	LB/TON	2.770	1.320	130.500	0.033S	0.027S	0.027S	35.7	11.8	9.6
NEW=	0.80		2.770								
PETROLEUM REFINRY FCCU											
EXIST=	0.85	LB/TON	0.066	0.010	0.242	0.031S	0.042C	0.042C	1506.	467.	766.
NEW=	0.85		0.017								
INTERNAL COMB ENGS DIESEL FUEL											
EXIST=	0.58	LB/TON	5.410	4.610	5.410	0.020S	0.028S	0.028S	18.0	3.6	5.0
NEW=	0.58		5.410								

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCNT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			ALLOWABLE E	N		P	B	C	A	B	C
			S		U				1975	1985	1985
								UNITS/YR			
MUNICIPAL INCINERATION EXIST- NEW-	0.56 0.56	LB/TON	4.600 1.460	0.990	19.700	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
FLYASH - VENEER	0.95	LB/TON	0.004	0.001	0.132	0.050S	0.025C	E6 TONS	22600.	11300.	6330.
FIXED FUEL BOILERS - COAL & REFUSE	0.58	LB/TON	5.000	3.660	366.000	0.000S	17.290S	E6 TONS	0.16	0.0	27.0
PRIMARY COPPER	0.85	LB/TON	37.900	1.220	405.000	0.036S	0.030C	E6 TONS	2.4	0.87	0.83
INDUSTRIAL/COMMERCIAL INCINERATION	0.38	LB/TON	6.470	0.065	6.470	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
SAND AND GRAVEL PROCESSING	0.90	LB/TON	0.100	0.005	0.100	0.050S	0.000S	E6 TONS	1142.	571.	0.0
LIME PROCESSING	0.90	LB/TON	3.400	0.203	203.000	0.050S	0.050C	E6 TONS	26.1	13.1	16.4
STEEL FOUNDRIES	0.90	LB/TON	2.200	0.104	10.400	0.028S	0.073S	E6 TONS	29.3	8.2	21.4
VEGETABLE OIL PRODUCTION	0.92	LB/TON	8.630	0.630	63.000	0.028S	0.027S	E6 TONS	6.5	1.8	1.8
GAS TURBINE ENGINES ELECTRIC UTILITIES	0.22	LB/TON	3.740	0.000	3.740	0.020S	0.270S	E6 TONS	54.1	10.8	146.
GLASS - SODA LIME	0.80	LB/TON	1.890	0.020	2.000	0.033S	0.028S	E6 TONS	34.4	11.4	9.6
CERAMIC CLAY	0.80	LB/TON	2.750	1.755	175.500	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
PRIMARY ALUMINUM SMELTERS	0.92	LB/TON	5.820	1.800	92.000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4
MINERAL WOOL	0.82	LB/TON	4.270	3.630	32.400	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
DIRECT FIRING OF MEATS	0.62	LB/TON	2445.000	195.600	2445.000	0.050S	0.033S	E6 TONS	0.034	0.017	0.011
IRON AND STEEL - SINTERING	0.90	LB/TON	0.500	0.150	42.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2
FERTILIZER - AMMONIUM SULFATE	0.84	LB/TON	2.040	1.000	20.000	0.045S	0.116C	E6 TONS	9.3	4.2	18.5
WHISKEY	0.95	LB/PRD UNIT	27.900	2.180	43.600	0.032S	0.060S	E6 PU	1.3	0.42	0.78
FERRBALLLOY - SUBMERGED ARC FURNACE	0.90	LB/TON	22.800	4.560	456.000	0.024S	0.015C	E6 TONS	1.6	0.44	0.25
CAST IRON FOUNDRY - ELEC. FURN.	0.93	LB/TON	4.500	0.045	4.500	0.028S	0.136S	E6 TONS	8.1	2.3	11.0
CONCRETE BATCHING	1.00	LB/TON	0.098	0.010	0.100	0.033S	0.030C	E6 TONS	327.	108.	112.

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCENT E	GROWTH RATES DECIMAL/YR			UNITS/YR	INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E S	E N		P U	P B	P C		A 1975	B 1985	C 1985
HYDROFLUORIC ACID												
COAL CLEANING - THERMAL	0.28	LB/TON	35.000	35.000	700.000	0.045S	0.045S	0.049S	E6 TONS	0.45	0.20	0.22
EXIST. -	0.59	LB/TON	0.410	0.099	19.800	0.050S	0.029S	0.029S	E6 TONS	133.	66.5	38.6
NEW -	0.59		0.340									
IRON & STEEL - BGF												
EXIST. -	0.90	LB/TON	0.208	0.150	51.000	0.028S	0.048S	0.048S	E6 TONS	88.9	24.9	42.7
NEW -	0.90		0.150									
GRAIN HANDLING - DRYING												
EXIST. -	0.82	LB/TON	0.770	0.060	6.000	0.037S	0.015C	0.015C	E6 TONS	47.9	17.7	7.7
SUGAR CANE - BAGASSE BURNING	0.75	LB/TON	3.700	2.200	22.000	0.050S	0.015S	0.015S	E6 TONS	7.0	3.5	1.0
FEED MILLING - OTHER	0.50	LB/TON	2.060	0.100	20.000	0.029S	0.035C	0.035C	E6 TONS	21.4	6.2	8.8
COTTON GINNING	1.00	LB/BALE	2.090	0.480	12.000	0.042S	0.013S	0.013S	E6 BALE	10.8	4.5	1.4
GYPSON												
PHOSPHATE ROCK - GRINDING	0.40	LB/TON	1.510	0.302	131.700	0.029S	0.006S	0.006S	E6 TONS	15.9	4.7	0.91
DEEP FAT FRYING	0.94	LB/TON	0.940	0.002	2.000	0.050S	0.043S	0.043S	E6 TONS	25.7	12.8	11.1
PHOSPHATE ROCK - DRYING/HANDLING	0.81	LB/TON	7.130	0.119	11.900	0.028S	0.043C	0.043C	E6 TONS	2.6	0.74	1.4
FERTILIZER - NITRATES	0.87	LB/TON	0.340	0.122	14.000	0.050S	0.041S	0.041S	E6 TONS	43.9	21.9	18.0
FERTILIZER - DAP	0.77	LB/TON	1.640	0.254	12.720	0.045S	0.070C	0.070C	E6 TONS	10.5	4.7	10.2
FIBERGLASS MFG. - WBL PRODUCTS	0.89	LB/TON	3.530	1.640	82.000	0.045S	0.054S	0.054S	E6 TONS	3.1	1.4	1.7
SODIUM CARBONATE - NATURAL	0.70	LB/TON	8.640	8.640	96.000	0.063S	0.042C	0.042C	E6 TONS	1.1	0.68	0.55
CHARCOAL	0.87	LB/TON	1.160	0.450	90.000	0.045S	0.130C	0.130C	E6 TONS	5.8	2.6	13.8
BEER PROCESSING	0.85	LB/TON	19.500	3.500	352.000	0.045S	0.043C	0.043C	E6 TONS	0.79	0.36	0.42
IRON AND STEEL - SCARFING	0.81	LB/TON	2.090	0.270	5.450	0.040S	0.070C	0.070C	E6 TONS	7.2	2.9	7.0
POLYVINYL CHLORIDE	0.90	LB/TON	0.138	0.030	3.000	0.028S	0.029S	0.029S	E6 TONS	87.3	24.4	25.3
WOOD PULPING SULFITE	0.82	LB/TON	3.180	0.350	35.000	0.000S	0.078C	0.078C	E6 TONS	2.7	0.0055	3.1
	0.98	LB/TON	3.000	3.000	24.000	0.031S	0.012C	0.012C	E6 TONS	2.4	0.74	0.30

PARTICULATES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION ALLOWABLE E S	EMISSION RATES E N	UNCONT E U	GROWTH RATES DECIMAL/YR P J	C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION A B C		
									1975	1985	1985
EXPLOSIVES - HIGH	0.83	LB/TON	1.550	1.350	50.400	0.0455	0.094C	E6 TONS	1.8	0.83	2.7
CARBON BLACK - FURNACE PROCESS	0.77	LB/TON	3.100	2.200	220.000	0.0455	0.025C	E6 TONS	2.0	0.89	0.56
ASPHALT SATURATOR	0.90	LB/TON	1.330	0.073	7.300	0.0425	0.025S	E6 TONS	6.3	2.6	1.6
SLUDGE INCINERATION EXIST. NEW	0.50 0.50	LB/TON	5.000 1.600	1.600	119.000	0.0335	0.250S	E6 TONS	1.2	0.39	2.9
SEC ALUMINUM - REVERB FURNACE EXIST. NEW	0.82 0.83 0.83	LB/TON	4.800 3.960 2.250	0.960 1.670	195.000 1665.000	0.036S 0.036S	0.047S 0.035C	E6 TONS E6 TONS	1.4 1.3	0.51 0.47	0.67 0.53
STARCH	0.83	LB/TON	2.000	0.020	8.000	0.0455	0.018C	E6 TONS	4.3	1.9	0.83
SECONDARY COPPER - SMELTING	0.82	LB/TON	3.470	0.338	84.600	0.035S	0.037C	E6 TONS	1.8	0.64	0.82
DETERGENT	0.90	LB/TON	1.500	0.450	90.000	0.000S	0.035C	E6 TONS	2.5	0.0	1.0
MIXED FUEL BOILERS - OIL & REFUSE	0.58	LB/TON	5.000	1.020	101.500	0.000S	17.290S	E6 TONS	0.036	0.0	6.2
SYNTHETIC FIBER - NYLON	0.72	LB/TON	1.530	0.750	15.000	0.0455	0.127C	E6 TONS	1.7	0.77	4.0
SYNTHETIC FIBER - DACRON	0.68	LB/TON	1.580	0.350	7.000	0.0455	0.164C	E6 TONS	2.3	1.0	8.2
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	1.180	0.000	1.180	0.020S	0.145S	E6 TONS	4.4	0.88	6.4
FRUIT MANUFACTURING	0.80	LB/TON	5.800	1.780	17.800	0.033S	0.037S	E6 TONS	0.84	0.28	0.31
POLYPROPYLENE	0.78	LB/TON	2.670	0.030	3.000	0.003S	0.150C	E6 TONS	1.6	0.048	4.9
FEED MILLING - ALFALFA DEHYDR.	0.50	LB/TON	2.060	0.250	50.000	0.029S	0.035C	E6 TONS	4.1	1.2	1.7
PET REF - PROC GAS COMB	0.85	LB/E6 BTU	20.000	3.000	20.000	0.031S	0.042C	E12 BTU	0.23	0.070	0.12
SECONDARY COPPER - HANDLING	0.82	LB/TON	6.640	0.848	212.000	0.035S	0.037C	E6 TONS	0.73	0.25	0.32
SECONDARY LEAD - REVERB EXIST. NEW	0.68 0.68	LB/TON	6.440 1.250	1.050	277.000	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
PULPBOARD	0.98	LB/TON	0.096	0.014	0.096	0.031S	0.015C	E6 TONS	37.2	11.5	6.0

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N	UNCENT E U	P	B	C	A	B	C
									1975	1985	1985
UNITS/YR											
SYNTHETIC RESINS - POLYESTER		LB/TON									
0.68			4.100	0.350	7.000	0.045S	0.170C		1.0	0.46	3.9
FLY ASH SINTERING		LB/TON									
0.86			0.400	0.110	110.000	0.033S	0.055C		7.7	2.5	5.4
CASTABLE REFRACTORY		LB/TON									
0.90			5.320	4.620	254.000	0.033S	0.043C		0.39	0.13	0.20
ASPHALT BLOWING		LB/TON									
0.90			1.130	0.042	4.200	0.042S	0.025S		3.1	1.3	0.79
PHOSPHATE ROCK - CALCINING		LB/TON									
0.90			0.960	0.400	40.000	0.050S	0.048S		2.5	1.3	1.2
PERLITE		LB/TON									
0.82			4.350	0.840	21.000	0.029S	0.036S		0.65	0.19	0.23
FIBERGLASS MFG.-TEXTILE PRODUCTS		LB/TON									
0.70			2.780	1.460	84.000	0.063S	0.122C		0.52	0.32	1.1
MINING MILLING LEAD ORE		LB/TON									
0.92			4.170	2.090	4.170	0.050S	0.000		0.62	0.31	0.0
PRIMARY LEAD SMELTERS		LB/TON									
EXIST. NEW			3.060 3.060	1.190	790.000	0.036S	0.000		0.76	0.28	0.0
PHOSPHORIC ACID - THERMAL PROCESS		LB/TON									
0.81			2.270	0.134	134.000	0.045S	0.014C		1.4	0.63	0.21
PAINT MANUFACTURING		LB/TON									
0.83			1.000	0.001	1.000	0.067S	0.026C		4.9	3.3	1.5
SEC ALUMINUM - SWEAT FURNACE		LB/TON									
0.68			7.360	1.980	33.000	0.036S	0.047S		0.30	0.11	0.14
STYRENE - BUTADIENE RUBBER		LB/TON									
0.75			0.700	0.120	0.700	0.003S	0.020C		2.3	0.070	0.51
LEAD ACID BATTERY		LB/PRD UNIT									
0.76			0.032	0.000	0.130	0.040S	0.050C		80.0	32.0	50.3
SECONDARY ZINC - DISTILLATION		LB/TON									
0.82			2.710	1.700	46.000	0.035S	0.039C		0.38	0.13	0.18
CLAY SINTERING		LB/TON									
0.80			2.410	0.026	26.000	0.033S	0.027S		0.74	0.24	0.20
COFFEE ROASTING		LB/TON									
0.85			0.794	0.440	7.200	0.040S	0.000S		1.5	0.62	0.0
AUTOBODY INCINERATION		LB/PRD UNIT									
0.90			1.970	0.540	2.000	0.039S	0.280S		0.29	0.11	0.82
SMOKED MEAT		LB/TON									
0.81			0.300	0.100	0.300	0.040S	0.017S		3.6	1.4	0.61
BRASS & BRONZE SMELTING		LB/TON									
EXIST. NEW			3.250 1.200	0.280	70.000	0.036S	0.000S		0.38	0.13	0.0

PARTICULATES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E	N		P	B	P	A 1975	B 1985	
FERTILIZER GTSP STORAGE		LB/TON	1.110	0.022	2.170	0.0455	0.042C	E6 TONS	1.2	0.53	0.60
GLASS - 8PAL	0.76	LB/TON	2.240	0.022	2.240	0.0335	0.028S	E6 TONS	0.46	0.15	0.13
SECONDARY ZINC - SWEATING	0.80	LB/TON	3.860	0.472	23.600	0.0355	0.039C	E6 TONS	0.20	0.070	0.093
ANIMAL FEED DEFLUBRINATION	0.82	LB/TON	4.570	0.063	625.000	0.0405	0.000S	E6 TONS	0.20	0.080	0.0
SECONDARY LEAD - BLAST	0.90	LB/TON	4.350	1.050	271.000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
EXIST. NEW	0.68 0.68	LB/TON	1.250								
ORCHARD HEATERS	1.00	LB/TON	0.007	0.000	0.007	0.0335	0.028S	E6 TONS	60.0	19.8	16.8
S9AP		LB/TON	0.724	0.026	13.000	0.0455	0.000S	E6 TONS	0.55	0.25	0.0
PATHOLOGICAL INCINERATION	0.90	LB/TON	4.600	1.900	12.800	0.0395	0.026C	E6 TONS	0.13	0.051	0.038
EXIST. NEW	0.34 0.34	LB/TON	3.800								
FISH MEAL PROCESSING	0.81	LB/TON	0.400	0.040	0.400	0.0085	0.000C	E6 TONS	0.36	0.029	0.0
SEC MAGNESIUM	0.82	LB/TON	6.780	0.680	6.780	0.0355	0.016S	E6 TONS	0.017	0.0061	0.0028
SECONDARY LEAD - PBT FURNACE	0.68	LB/TON	1.360	0.041	1.360	0.024S	0.032C	E6 TONS	0.065	0.016	0.024

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					T S N 1985	T S N 1985	1 - E / E N S
	T U 1945	T A 1975	T E 1985	1000 TONS/YEAR	T S 1985			
				T UE 1985				
CEMENT PLANTS								
BLR >250 E6 BTU/HR	18749.	9548.	7161.	10464.	7179.	7173.	5200.	0.297
BLR 10-250 E6 BTU/HR	43153.	2250.	1125.	12632.	2106.	1616.	490000.	0.500
BLR 10-250 E6 BTU/HR	7255.	1197.	599.	3157.	1276.	856.	419000.	0.620
BOILERS .3-10 MM BTU/HR	1260.	827.	521.	521.	1260.	663.	597000.	0.808
STONE QUARRYING AND PROCESSING	10101.	186.	92.9	1798.	247.	156.	91100.	0.591
GRAIN HANDLING - PROCESSING	684.	212.	134.	371.	246.	135.	111000.	0.986
GRAIN HANDLING - TRANSFER	2230.	191.	120.	1238.	221.	130.	90600.	0.897
COKE OVENS - BY PRODUCT	189.	172.	124.	124.	189.	130.	59600.	0.912
ASPHALT BATCHING	7826.	131.	120.	4800.	154.	129.	25000.	0.734
BOILERS <.3 MM BTU/HR	191.	144.	115.	115.	191.	115.	76300.	1.000
WOOD PULPING KRAFT	3706.	93.5	64.5	2269.	105.	105.	0.0	0.000
IRON AND STEEL - BLAST FURNACE	10336.	80.1	57.7	5769.	103.	103.	0.0	0.000
GRAIN HANDLING - SCREENING	684.	158.	99.6	371.	184.	103.	80700.	0.963
WOOD WASTE BOILERS	1464.	142.	71.1	650.	160.	79.4	80800.	0.907
IRON & STEEL - EAF	809.	74.2	53.4	337.	70.1	61.4	8600.	0.520
BRICK & RELATED CLAY PRODUCTS	2367.	39.6	26.5	1249.	50.2	37.8	12400.	0.523
PETROLEUM REFINRY FCCU	234.	42.2	29.1	107.	38.1	34.4	3600.	0.412
INTERNAL COMB ENGS DIESEL DUALFUEL	36.1	28.2	22.5	22.5	36.1	34.1	2000.	0.148
MUNICIPAL INCINERATION	262.	41.9	25.5	109.	36.8	33.2	3600.	0.322
PLYWOOD - VENEER	1814.	42.9	21.5	709.	55.0	32.4	22600.	0.675

SOURCE

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PARTICULATES

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS					T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UC 1985	T S 1985			
COAL CLEANING - THERMAL DRYING 1002.		16.1	8.0	388.	18.6	11.1	7400.	0.709
IRON & STEEL - BOF 3020.		8.3	6.0	1469.	10.6	10.6	0.0	0.000
GRAIN HANDLING - DRYING 137.		15.1	9.5	74.2	17.5	10.2	7300.	0.922
SUGAR CANE - BAGASSE BURNING 66.4		9.7	4.9	28.9	11.2	8.6	2500.	0.405
FEED MILLING - OTHER 151.		11.0	7.8	75.9	15.5	8.2	7300.	0.951
COTTON GINNING 73.2		11.3	6.5	37.6	12.8	8.0	4700.	0.770
GYPSUM 886.		9.6	6.8	592.	10.2	7.5	2700.	0.300
PHOSPHATE ROCK - GRINDING 34.5		11.4	5.7	12.1	16.2	5.7	10500.	0.998
DEEP FAT FRYING 19.4		7.6	5.5	9.2	11.6	5.6	6000.	0.983
PHOSPHATE ROCK - DRYING/HANDLING 377.		6.5	3.2	134.	9.2	5.4	3700.	0.641
FERTILIZER - NITRATES 101.		6.6	3.6	28.3	13.1	5.1	7900.	0.845
FERTILIZER - DAP 176.		4.9	2.7	63.0	7.6	5.0	2600.	0.535
FIBERGLASS MFG.-WOOL PRODUCTS 55.0		3.3	1.2	13.7	4.9	4.9	0.0	0.000
SODIUM CARBONATE - NATURAL 764.		2.9	1.6	124.	9.8	4.8	5000.	0.612
CHARCOAL 181.		6.6	3.6	65.4	10.0	4.8	5200.	0.821
BEER PROCESSING 31.3		6.1	3.7	9.5	12.0	4.7	7200.	0.671
IRON AND STEEL - SCARFING 152.		5.4	3.9	44.9	7.0	4.6	2400.	0.783
POLYVINYL CHLORIDE 83.3		3.6	3.6	39.2	7.6	4.0	3500.	0.890
WOOD PULPING SULFITE 31.8		3.5	2.4	19.5	4.0	4.0	0.0	0.000
EXPLOSIVES - HIGH 94.4		1.2	0.65	21.1	2.9	2.6	290.	0.129

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS				T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985	TENS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	T UE 1985						
CARBON BLACK - FURNACE PROCESS 215.		2.4	1.3	92.6	3.0	2.5	500.	0.290		
ASPHALT SATURATOR 25.8		3.8	2.2	12.0	4.7	2.3	2300.	0.945		
SLUDGE INCINERATION 122.		1.5	0.99	23.4	2.3	2.3	0.0	-0.000		
SEC ALUMINUM - REVERB FURNACE 167.		2.8	1.8	73.1	4.1	2.3	1800.	0.800		
PRIMARY ZINC SMELTERS 1267.		2.1	1.3	575.	2.3	2.0	240.	0.258		
STARCH 16.9		3.5	1.9	7.6	4.2	2.0	2200.	0.990		
SECONDARY COPPER - SMELTING 92.2		2.6	1.7	41.5	3.8	1.9	1800.	0.903		
DETERGENT 143.		1.7	1.7	101.	2.4	1.9	480.	0.700		
MIXED FUEL BOILERS - OIL & REFUSE 184.		0.052	0.052	1.1	9.1	1.9	7100.	0.796		
SYNTHETIC FIBER - NYLON 30.6		0.94	0.52	5.1	3.1	1.8	1300.	0.510		
SYNTHETIC FIBER - DACRON 24.9		1.2	0.69	3.0	5.6	1.8	3800.	0.778		
GAS TURBINE ENGINES GAS PIPELINE 5.4		2.2	1.6	1.8	5.4	1.8	3600.	1.000		
FRIT MANUFACTURING 8.2		1.9	1.3	4.0	2.7	1.7	940.	0.693		
POLYPROPYLENE 7.6		1.7	1.6	1.8	6.7	1.7	5000.	0.989		
FEED MILLING - ALFALFA DEHYDR. 71.9		2.1	1.5	36.2	3.0	1.7	1200.	0.879		
PET REF - PROC GAS COMB 2.9		1.9	1.3	1.3	2.9	1.6	1300.	0.850		
SECONDARY COPPER - HANDLING 91.2		2.0	1.3	41.1	2.9	1.5	1300.	0.872		
SECONDARY LEAD - REVERB 92.0		1.6	1.2	51.0	1.4	1.3	20.0	0.160		
PULPBOARD 2.0		1.7	1.2	1.2	2.0	1.3	700.	0.854		
SYNTHETIC RESINS - POLYESTER 11.7		1.4	0.79	1.8	6.8	1.3	5500.	0.915		

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				TONS/YEAR T - T S N 1985	1 - E / E N S
			T E 1985	1000 TUNS/YEAR T UE 1985	T S 1985	T N 1985		
FLY ASH SINTERING	621.	1.3	0.89	243.	2.3	1.3	990.	0.725
CASTABLE REFRACTORY	59.9	0.82	0.55	26.3	1.3	1.2	90.0	0.132
ASPHALT BLOWING	7.4	1.7	0.97	3.5	2.1	1.0	1000.	0.964
PHOSPHATE ROCK - CALCINING	67.9	1.1	0.55	22.9	1.6	1.0	620.	0.583
PERLITE	7.6	1.2	0.81	3.9	1.6	0.96	600.	0.807
FIBERGLASS MFG.-TEXTILE PRODUCTS	43.2	0.50	0.13	5.7	1.6	0.93	660.	0.475
MINING/MILLING LEAD ORE	1.2	1.2	0.60	0.60	1.2	0.90	290.	0.499
PRIMARY LEAD SMELTERS	272.	1.2	0.64	164.	1.1	0.80	250.	0.611
PHOSPHORIC ACID - THERMAL PROCESS	86.7	1.3	0.70	41.5	1.5	0.75	720.	0.941
PAINT MANUFACTURING	2.7	2.0	0.68	0.68	2.7	0.63	1900.	0.999
SEC ALUMINUM - SWEAT FURNACE	5.0	0.76	0.49	2.2	1.1	0.65	450.	0.731
STYRENE - BUTADIENE RUBBER	0.75	0.62	0.60	0.60	0.75	0.62	120.	0.829
LEAD ACID BATTERY	6.4	0.97	0.58	2.4	1.6	0.59	990.	0.396
SECONDARY ZINC - DISTILLATION	10.5	0.42	0.27	4.7	0.62	0.49	120.	0.373
CLAY SINTERING	9.8	0.71	0.43	5.2	0.91	0.48	420.	0.989
COFFEE ROASTING	4.8	0.52	0.31	2.9	0.52	0.43	90.0	0.446
AUTOBODY INCINERATION	1.0	0.26	0.16	0.16	0.99	0.39	600.	0.726
SMOKED MEAT	0.51	0.44	0.26	0.26	0.51	0.35	160.	0.667
BRASS & BRONZE SMELTING	10.5	0.49	0.31	6.7	0.38	0.33	40.0	0.767
FERTILIZER GTSP STORAGE	1.5	0.50	0.27	0.54	0.75	0.28	460.	0.980

PARTICULATES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				TONS/YEAR T - T S N 1985	I - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
GLASS - 6PAL	0.52	0.41	0.27	0.27	0.52	0.28	240.	0.990
SECONDARY ZINC - SWEATING	2.8	0.32	0.21	1.3	0.46	0.26	190.	0.774
ANIMAL FEED DEFLUORINATION	56.2	0.41	0.25	33.8	0.41	0.25	160.	0.986
SECONDARY LEAD - BLAST	18.7	0.22	0.17	10.4	0.20	0.20	6.1	0.160
* ORCHARD HEATERS	0.27	0.21	0.14	0.14	0.27	0.14	120.	1.000
SOAP	3.2	0.18	0.099	1.8	0.18	0.10	70.0	0.964
PATHOLOGICAL INCINERATION	0.37	0.10	0.062	0.17	0.12	0.091	20.0	0.500
FISH MEAL PROCESSING	0.058	0.058	0.054	0.054	0.058	0.054	4.2	0.900
SEC MAGNESIUM	0.056	0.049	0.032	0.032	0.056	0.034	20.0	0.900
SECONDARY LEAD - POT FURNACE	0.041	0.030	0.023	0.23	0.041	0.023	10.0	0.970

RANKED DATA FOR NO_x

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NITROGEN OXIDES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES		UNITS/YR	CAPACITY/PRODUCTION		C
			ALLOWABLE E S	EMISSION E N	UNCONT E U	DECIMAL/YR P B		A	B	
								1975	1985	1985
BLR >250 E6 BTU/HR EXIST= 0.58 NEW= 0.58		LB/E6 BTU	0.582 0.534	0.428	0.599	0.050S	0.055C	28011.	14006.	19836.
B91ILERS 3-10 MM BTU/HR										
B91ILERS <.3 MM BTU/HR	0.25	LB/E6 BTU	0.194	0.175	0.194	0.037S	0.043C	26491.	9802.	13868.
B91ILERS 0.30		LB/E6 BTU	0.081	0.040	0.081	0.020S	0.029C	24572.	4914.	8131.
BLR 10-250 E6 BTU/HR EXIST= 0.32 NEW= 0.32		LB/E6 BTU	0.415 0.411	0.138	0.417	0.050S	0.014C	19534.	5767.	2914.
PORTLAND CEMENT										
COKE OVENS - BY PRODUCT	0.90	LB/TON	2.600	1.690	2.600	0.025S	0.030C	103.	25.8	35.4
GAS TURBINE ENGINES ELECTRIC UTILITIES	0.93	LB/TON	0.054	0.000	0.054	0.028S	0.010S	75.5	21.1	7.5
BRICK & RELATED CLAY PRODUCTS	0.22	LB/TON	72.700	10.900	72.700	0.020S	0.270S	54.1	10.8	146.
GLASS - SODA LIME	0.80	LB/TON	0.465	0.233	0.465	0.033S	0.027S	35.7	11.8	9.6
INDUSTRIAL/COMMERCIAL INCINERATORS	0.80	LB/TON	2.040	0.000	5.290	0.033S	0.028S	34.4	11.4	9.6
MUNICIPAL INCINERATORS	0.38	LB/TON	1.870	0.650	1.870	0.039S	0.110C	32.6	12.7	60.0
STEEL FOUNDRIES	0.56	LB/TON	3.000	1.100	3.000	0.039S	0.046S	32.5	12.7	14.9
INTERNAL COMBUSTION ENGS SPK IGN	0.90	LB/TON	0.200	0.000	0.200	0.028S	0.073S	29.3	8.2	21.4
LIME PROCESSING	0.58	LB/TON	230.000	131.000	230.000	0.020S	0.087S	28.7	5.7	25.0
INTERNAL COMBUSTION ENGS D/DF	0.90	LB/TON	0.834	0.417	0.834	0.050S	0.050C	26.1	13.1	16.4
CERAMIC CLAY	0.58	LB/TON	179.000	123.000	179.000	0.020S	0.028S	18.0	3.6	5.0
NITRIC ACID EXIST= 0.88 NEW= 0.88	0.80	LB/TON	0.465	0.233	0.465	0.033S	0.042S	13.9	4.6	5.8
FERTILIZER - NITRATES	0.77	LB/TON	22.300 3.000	2.000	52.500	0.050S	0.078C	11.4	5.7	12.8
MINERAL W68L	0.82	LB/TON	0.125	0.000	0.125	0.045S	0.070C	10.5	4.7	10.2
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	0.160	0.080	0.160	0.029S	0.020S	8.4	2.5	1.7
		LB/TON	60.500	9.080	60.500	0.020S	0.145S	4.4	0.88	6.4

NITROGEN OXIDES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCENT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	EMISSION E N		P	B	P	A 1975	B 1985	
EXPLOSIVES - HIGH	0.83	LB/TON	169.000	11.500	169.000	0.045S	0.094C	E6 TONS	1.8	0.83	2.7
COFFEE ROASTING	0.85	LB/TON	0.100	0.050	0.100	0.040S	0.000S	E6 TONS	1.5	0.62	0.0
FIBERGLASS MFG. WHEEL PRODUCTS	0.70	LB/TON	3.620	1.570	3.620	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
ADIPIC ACID	1.00	LB/TON	12.000	1.200	12.000	0.015C	0.055C	E6 TONS	0.84	0.13	0.59
SEC LEAD - REVERB FURN	0.68	LB/TON	0.938	0.000	5.320	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
EXPLOSIVES - LOW	0.83	LB/TON	41.500	2.910	41.500	0.045S	0.094C	E6 TONS	0.52	0.23	0.76
FIBERGLASS MANUF - TEXTILE	0.70	LB/TON	15.300	2.870	15.300	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
GLASS - BPAL	0.80	LB/TON	2.040	0.000	5.290	0.033S	0.028C	E6 TONS	0.46	0.15	0.15
SEC ZINC - DISTILLATION	0.82	LB/TON	0.072	0.000	0.072	0.035S	0.039C	E6 TONS	0.38	0.13	0.18
DHT/TPA NITRIC ACID OXIDATION	0.85	LB/TON	13.000	1.300	13.000	0.045S	0.073C	E6 TONS	0.38	0.17	0.39
AUTOBODY INCINERATORS	0.90	LB/PRD UNIT	0.100	0.020	0.100	0.039S	0.280S	E6 PU	0.29	0.11	0.82
FET REF - PRC GAS COMB	0.95	LB/E6 BTU	230.000	115.000	230.000	0.031S	0.042C	E12 BTU	0.23	0.070	0.12
SEC ZINC - SWEAT	0.82	LB/TON	0.072	0.000	0.072	0.035S	0.039C	E6 TONS	0.20	0.069	0.091
MIXED FUEL BOILERS - COAL & REFUSE	0.58	LB/TON	35.000	15.000	37.500	0.000S	17.290S	E6 TONS	0.16	0.0	27.0
SEC LEAD - BLAST FURN	0.68	LB/TON	0.157	0.000	0.157	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
PATHOLOGICAL INCINERATOR	0.34	LB/TON	25.000	0.000	25.000	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
MIXED FUEL BOILERS - OIL & REFUSE	0.58	LB/TON	15.000	13.800	34.500	0.000S	17.290S	E6 TONS	0.036	0.0	6.2
SEC MAGNESIUM	0.82	LB/TON	0.347	0.000	0.347	0.035S	0.016S	E6 TONS	0.017	0.0061	0.0028

NITROGEN OXIDES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS						TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
BLR >250 E6 BTU/HR	8311.	4728.	2364.	2433.	7604.	6564.	1040000.	0.199
BOILERS .3-10 MM BTU/HR	979.	642.	405.	405.	979.	922.	56200.	0.098
• BOILERS <.3 MM BTU/HR	397.	299.	239.	239.	397.	317.	80200.	0.506
BLR 10-250 E6 BTU/HR	1498.	1297.	649.	652.	1482.	929.	553000.	0.664
PORTLAND CEMENT	162.	121.	90.4	90.4	162.	137.	25000.	0.350
• COKE OVENS - BY PRODUCT	2.1	1.9	1.4	1.4	2.1	1.4	720.	1.000
GAS TURBINE ENGINES ELECTRIC UTILITIES	1601.	433.	346.	346.	1601.	534.	1060000.	0.850
• BRICK & RELATED CLAY PRODUCTS	8.4	6.6	4.4	4.4	8.4	6.4	1900.	0.499
• GLASS - SODA LIME	93.3	28.1	18.8	48.8	36.0	18.8	17100.	1.000
INDUSTRIAL/COMMERCIAL INCINERATORS	32.9	11.6	7.1	7.1	32.9	16.0	16800.	0.652
MUNICIPAL INCINERATORS	39.9	27.3	16.7	16.7	39.9	25.2	14600.	0.633
• STEEL FOUNDRIES	4.6	2.6	1.9	1.9	4.6	1.9	2600.	1.000
INTERNAL COMBUSTION ENGS SPK IGN	3585.	1917.	1534.	1534.	3585.	2702.	882000.	0.430
• LIME PROCESSING	16.0	9.8	4.9	4.9	16.0	10.4	5500.	0.500
INTERNAL COMBUSTION ENGS D/DF	1193.	932.	746.	746.	1193.	1053.	140000.	0.313
• CERAMIC CLAY	3.7	2.6	1.7	1.7	3.7	2.7	960.	0.499
NITRIC ACID	558.	112.	55.9	132.	80.3	72.2	8100.	0.333
• FERTILIZER - NITRATES	0.99	0.51	0.28	0.28	0.99	0.28	710.	1.000
• MINERAL W06L	0.66	0.55	0.39	0.39	0.66	0.53	130.	0.500
GAS TURBINE ENGINES GAS PIPELINE	277.	113.	90.3	90.3	277.	118.	158000.	0.850

NITROGEN OXIDES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS								TONS/YEAR T-S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985				
EXPLOSIVES - HIGH	316.	129.	70.9	70.9	316.	87.6	228000.	0.932		
• COFFEE ROASTING	0.066	0.066	0.040	0.040	0.066	0.053	10.0	0.500		
FIBERGLASS MFG. WOOL PRODUCTS	2.1	1.4	0.52	0.52	2.1	1.2	880.	0.566		
ADIPIC ACID	8.6	5.0	4.2	4.2	8.6	4.7	3900.	0.900		
• SEC LEAD - REVERB FURN	1.8	0.23	0.17	0.98	0.31	0.17	130.	1.000		
EXPLOSIVES - LOW	22.0	8.9	4.9	4.9	22.0	6.1	15800.	0.930		
FIBERGLAS MANUF - TEXTILE	8.8	2.8	1.0	1.0	8.8	2.5	6200.	0.812		
• GLASS - 6PAL	1.3	0.37	0.25	0.65	0.49	0.25	240.	1.000		
• SEC ZINC - DISTILLATION	0.016	0.011	0.0073	0.0073	0.016	0.0073	9.2	1.000		
DMT/TPA NITRIC ACID OXIDATION	4.2	2.1	1.2	1.2	4.2	1.5	2700.	0.900		
AUTOBODY INCINERATORS	0.050	0.013	0.0080	0.0080	0.050	0.016	30.0	0.800		
PET REF - PROC GAS COMB	33.4	22.1	15.2	15.2	33.4	24.3	9000.	0.500		
• SEC ZINC - SWEAT	0.0085	0.0058	0.0038	0.0038	0.0085	0.0038	4.7	1.000		
MIXED FUEL BOILERS - COAL & REFUSE	295.	1.6	1.6	1.7	275.	119.	156000.	0.571		
• SEC LEAD - BLAST FURN	0.011	0.0079	0.0060	0.0060	0.011	0.0060	4.8	1.000		
• PATHOLOGICAL INCINERATOR	0.71	0.55	0.34	0.34	0.71	0.34	370.	1.000		
MIXED FUEL BOILERS - OIL & REFUSE	62.6	0.16	0.16	0.36	27.2	25.1	2100.	0.080		
• SEC MAGNESIUM	0.0029	0.0025	0.0016	0.0016	0.0029	0.0016	1.3	1.000		

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NITROGEN OXIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	UNCONT E U	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION		
								A	B	C
								1975	1985	1985
BLR >250 E6 BTU/HR EXIST. NEW.	0.58 0.58	LB/E6 BTU	0.582 0.534	0.599	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
BOILERS 3-10 MM BTU/HR	0.25	LB/E6 BTU	0.194	0.194	0.037S	0.043C	E12 BTU	26491.	9802.	13868.
BLR 10-250 E6 BTU/HR EXIST. NEW.	0.32 0.32	LB/E6 BTU	0.415 0.411	0.417	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
BOILERS <3 MM BTU/HR	0.30	LB/E6 BTU	0.081	0.081	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
PORTLAND CEMENT	0.90	LB/TON	2.600	2.600	0.025S	0.030C	E6 TONS	103.	25.8	35.4
COKE OVENS - BY PRODUCT	0.93	LB/TON	0.054	0.054	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
LIME PROCESSING	0.90	LB/TON	0.834	0.834	0.050S	0.050C	E6 TONS	26.1	13.1	16.4
INDUSTRIAL/COMMERCIAL INCINERATORS	0.38	LB/TON	1.870	1.870	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
MUNICIPAL INCINERATORS	0.56	LB/TON	3.000	3.000	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.465	0.465	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
GLASS - SODA LIME	0.80	LB/TON	2.040	5.290	0.033S	0.028S	E6 TONS	34.4	11.4	9.6
GAS TURBINE ENGINES ELECTRIC UTILITIES	0.22	LB/TON	72.700	72.700	0.020S	0.270S	E6 TONS	54.1	10.8	146.
STEEL FOUNDRIES	0.90	LB/TON	0.200	0.200	0.028S	0.073S	E6 TONS	29.3	8.2	21.4
INTERNAL COMBUSTION ENGS SPK IGN	0.58	LB/TON	230.000	230.000	0.020S	0.087S	E6 TONS	28.7	5.7	25.0
NITRIC ACID EXIST. NEW.	0.88 0.88	LB/TON	22.300 3.000	52.500	0.050S	0.078C	E6 TONS	11.4	5.7	12.8
FERTILIZER - NITRATES	0.77	LB/TON	0.125	0.125	0.045S	0.070C	E6 TONS	10.5	4.7	10.2
CERAMIC CLAY	0.80	LB/TON	0.465	0.465	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
INTERNAL COMBUSTION ENGS D/DF	0.58	LB/TON	179.000	179.000	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
MINERAL WOOL	0.82	LB/TON	0.160	0.160	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	60.500	60.500	0.020S	0.145S	E6 TONS	4.4	0.88	6.4

NITROGEN OXIDES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N	UNCONT E U	P B	P C	A 1975	B 1985	C 1985
EXPLOSIVES - HIGH	0.83	LB/TON	169.000	11.500	169.000	0.045S	0.094C	1.8	0.83	2.7
FIBERGLASS MFG. WGPL PRODUCTS	0.70	LB/TON	3.620	1.570	3.620	0.063S	0.042C	1.1	0.68	0.55
COFFEE ROASTING	0.85	LB/TON	0.100	0.050	0.100	0.040S	0.000S	1.5	0.62	0.0
FIBERGLAS MANUF - TEXTILE	0.70	LB/TON	15.300	2.870	15.300	0.063S	0.122C	0.52	0.32	1.1
EXPLOSIVES - LOW	0.83	LB/TON	41.500	2.910	41.500	0.045S	0.094C	0.52	0.23	0.76
SEC LEAD - REVERB FURN	0.68	LB/TON	0.938	0.000	5.320	0.024S	0.032C	0.71	0.17	0.26
CHT/TPA NITRIC ACID OXIDATION	0.85	LB/TON	13.000	1.300	13.000	0.045S	0.073C	0.38	0.17	0.39
GLASS - BPAL	0.80	LB/TON	2.040	0.000	5.290	0.033S	0.028C	0.46	0.15	0.15
ADIPIC ACID	1.00	LB/TON	12.000	1.200	12.000	0.015C	0.055C	0.84	0.13	0.59
SEC ZINC - DISTILLATION	0.82	LB/TON	0.072	0.000	0.072	0.035S	0.039C	0.38	0.13	0.18
ALTOBODY INCINERATORS	0.90	LB/PRD UNT	0.100	0.020	0.100	0.039S	0.280S	0.29	0.11	0.82
PET REF - PROC GAS COMB	0.85	LB/E6 BTU	230.000	115.000	230.000	0.031S	0.042C	0.23	0.070	0.12
SEC ZINC - SWEAT	0.82	LB/TON	0.072	0.000	0.072	0.035S	0.039C	0.20	0.069	0.091
PATHOLOGICAL INCINERATOR	0.34	LB/TON	25.000	0.000	25.000	0.039S	0.026C	0.13	0.051	0.038
SEC LEAD - BLAST FURN	0.68	LB/TON	0.157	0.000	0.157	0.024S	0.032C	0.15	0.036	0.055
SEC MAGNESIUM	0.82	LB/TON	0.347	0.000	0.347	0.035S	0.016S	0.017	0.0061	0.0028
MIXED FUEL BOILERS - OIL & REFUSE	0.58	LB/TON	15.000	13.800	34.500	0.000S	17.290S	0.036	0.0	6.2
MIXED FUEL BOILERS - COAL & REFUSE	0.58	LB/TON	35.000	15.000	37.500	0.000S	17.290S	0.16	0.0	27.0

NITROGEN OXIDES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS				T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S	
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985				T S 1985
BLR >250 E6 BTU/HR	8311.	4728.	2364.	2433.	7604.	6564.	1040000.	0.199
BOILERS .3-10 MM BTU/HR	979.	642.	405.	405.	979.	922.	56200.	0.098
BLR 10-250 E6 BTU/HR	1498.	1297.	649.	652.	1482.	929.	553000.	0.664
BOILERS <.3 MM BTU/HR	397.	299.	239.	239.	397.	317.	80200.	0.506
PORTLAND CEMENT	162.	121.	90.4	90.4	162.	137.	25000.	0.350
COKE OVENS - BY PRODUCT	2.1	1.9	1.4	1.4	2.1	1.4	720.	1.000
LIME PROCESSING	16.0	9.8	4.9	4.9	16.0	10.4	5500.	0.500
INDUSTRIAL/COMMERCIAL INCINERATORS	32.9	11.6	7.1	7.1	32.9	16.0	16800.	0.652
MUNICIPAL INCINERATORS	39.9	27.3	16.7	16.7	39.9	25.2	14600.	0.633
BRICK & RELATED CLAY PRODUCTS	8.4	6.6	4.4	4.4	8.4	6.4	1900.	0.499
GLASS - SODA LIME	93.3	28.1	18.8	48.8	36.0	18.8	17100.	1.000
GAS TURBINE ENGINES ELECTRIC UTILITIES	1601.	433.	346.	346.	1601.	534.	1060000.	0.850
STEEL FOUNDRIES	4.6	2.6	1.9	1.9	4.6	1.9	2600.	1.000
INTERNAL COMBUSTION ENGS SPK IGN	3585.	1917.	1534.	1534.	3585.	2702.	882000.	0.430
NITRIC ACID	558.	112.	55.9	132.	80.3	72.2	8100.	0.333
FERTILIZER - NITRATES	0.99	0.51	0.28	0.28	0.99	0.28	710.	1.000
CERAMIC CLAY	3.7	2.6	1.7	1.7	3.7	2.7	960.	0.499
INTERNAL COMBUSTION ENGS D/OF	1193.	932.	746.	746.	1193.	1053.	140000.	0.313
MINERAL WOOL	0.66	0.55	0.39	0.39	0.66	0.53	130.	0.500
GAS TURBINE ENGINES GAS PIPELINE	277.	113.	90.3	90.3	277.	118.	158000.	0.850

NITROGEN OXIDES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS						TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
EXPLOSIVES - HIGH	316.	129.	70.9	70.9	316.	87.6	228000.	0.932
FIBERGLASS MFG. WOOL PRODUCTS	2.1	1.4	0.52	0.52	2.1	1.2	850.	0.566
* COFFEE ROASTING	0.066	0.066	0.040	0.040	0.066	0.053	10.0	0.500
FIBERGLAS MANUF - TEXTILE	8.8	2.5	1.0	1.0	8.8	2.5	6200.	0.812
EXPLOSIVES - LOW	22.0	8.9	4.9	4.9	22.0	6.1	15800.	0.930
* SEC LEAD - REVERB FURN	1.8	0.23	0.17	0.98	0.31	0.17	130.	1.000
DMT/TPA NITRIC ACID OXIDATION	4.2	2.1	1.2	1.2	4.2	1.5	2700.	0.900
* GLASS - 6PAL	1.3	0.37	0.25	0.65	0.49	0.25	240.	1.000
ADIPIC ACID	8.6	5.0	4.2	4.2	8.6	4.7	3900.	0.900
* SEC ZINC - DISTILLATION	0.016	0.011	0.0073	0.0073	0.016	0.0073	9.2	1.000
AUTOBODY INCINERATORS	0.050	0.013	0.0080	0.0080	0.050	0.016	30.0	0.800
PET REF - PROC GAS COMB	33.4	22.1	15.2	15.2	33.4	24.3	9000.	0.500
* SEC ZINC - SWEAT	0.0085	0.0058	0.0038	0.0038	0.0085	0.0038	4.7	1.000
* PATHOLOGICAL INCINERATOR	0.71	0.55	0.34	0.34	0.71	0.34	370.	1.000
* SEC LEAD - BLAST FURN	0.011	0.0079	0.0060	0.0060	0.011	0.0060	4.8	1.000
* SEC MAGNESIUM	0.0029	0.0025	0.0016	0.0016	0.0029	0.0016	1.3	1.000
MIXED FUEL BOILERS - OIL & REFUSE	62.6	0.16	0.16	0.36	27.2	25.1	2100.	0.080
MIXED FUEL BOILERS - COAL & REFUSE	295.	1.6	1.6	1.7	275.	119.	156000.	0.571

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NITROGEN OXIDES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES			INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N	UNCONT E U	DECIMAL/YR P B	P C	A 1975	B 1985	C 1985
BLR >250 E6 BTU/HR EXIST. NEW	0.58 0.58	LB/E6 BTU	0.582 0.534	0.428	0.599	0.050S	0.055C	28011.	14006.	19836.
BOILERS >3-10 MM BTU/HR	0.25	LB/E6 BTU	0.194	0.175	0.194	0.037S	0.043C	26491.	9802.	13868.
BOILERS <3 MM BTU/HR	0.30	LB/E6 BTU	0.081	0.040	0.081	0.020S	0.029C	24572.	4914.	8131.
BLR 10-250 E6 BTU/HR EXIST. NEW	0.32 0.32	LB/E6 BTU	0.415 0.411	0.138	0.417	0.050S	0.014C	19534.	9767.	2914.
GAS TURBINE ENGINES ELECTRIC UTILITIES	0.22	LB/TON	72.700	10.900	72.700	0.020S	0.270S	54.1	10.8	146.
INDUSTRIAL/COMMERCIAL INCINERATORS	0.38	LB/TON	1.870	0.650	1.870	0.039S	0.110C	32.6	12.7	60.0
PORTLAND CEMENT	0.90	LB/TON	2.600	1.690	2.600	0.025S	0.030C	103.	25.8	35.4
MIXED FUEL BOILERS - COAL & REFUSE	0.58	LB/TON	35.000	15.000	37.500	0.000S	17.290S	0.16	0.0	27.0
INTERNAL COMBUSTION ENGS SPK IGN	0.58	LB/TON	230.000	131.000	230.000	0.020S	0.087S	28.7	5.7	25.0
STEEL FOUNDRIES	0.90	LB/TON	0.200	0.000	0.200	0.028S	0.073S	29.3	8.2	21.4
LIME PROCESSING	0.90	LB/TON	0.834	0.417	0.834	0.050S	0.050C	26.1	13.1	16.4
MUNICIPAL INCINERATORS	0.56	LB/TON	3.000	1.100	3.000	0.039S	0.046S	32.5	12.7	14.9
NITRIC ACID EXIST. NEW	0.88 0.88	LB/TON	22.300 3.000	2.000	52.500	0.050S	0.078C	11.4	5.7	12.8
FERTILIZER - NITRATES	0.77	LB/TON	0.125	0.000	0.125	0.045S	0.070C	10.5	4.7	10.2
GLASS - SODA LIME	0.80	LB/TON	2.040	0.000	5.290	0.033S	0.028S	34.4	11.4	9.6
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.465	0.233	0.465	0.033S	0.027S	35.7	11.8	9.6
COKE OVENS - BY PRODUCT	0.93	LB/TON	0.054	0.000	0.054	0.028S	0.010S	75.5	21.1	7.5
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	60.500	9.080	60.500	0.020S	0.145S	4.4	0.88	6.4
MIXED FUEL BOILERS - OIL & REFUSE	0.58	LB/TON	15.000	13.800	34.500	0.000S	17.290S	0.036	0.0	6.2
CERAMIC CLAY	0.80	LB/TON	0.465	0.233	0.465	0.033S	0.042S	13.9	4.6	5.8

NITROGEN OXIDES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCENT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			ALLOWABLE E	EMISSION E		S	N	P	1975	1985	1985
INTERNAL COMBUSTION ENGS D/DF		LB/TON	179.000	123.000	179.000	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
EXPLOSIVES - HIGH	0.58	LB/TON	169.000	11.500	169.000	0.045S	0.094C	E6 TONS	1.8	0.83	2.7
MINERAL W60L	0.83	LB/TON	0.160	0.080	0.160	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
FIBERGLAS MANUF - TEXTILE	0.82	LB/TON	15.300	2.870	15.300	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
AUT688DY INCINERATORS	0.70	LB/TON	0.100	0.020	0.100	0.039S	0.280S	E6 PU	0.29	0.11	0.82
EXPLOSIVES - LOW	0.90	LB/PRD UNIT	41.500	2.910	41.500	0.045S	0.094C	E6 TONS	0.52	0.23	0.76
ADIPIIC ACID	0.83	LB/TON	12.000	1.200	12.000	0.015C	0.055C	E6 TONS	0.84	0.13	0.59
FIBERGLASS MFG. W60L PRODUCTS	1.00	LB/TON	3.620	1.570	3.620	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
DMT/TPA NITRIC ACID OXIDATION	0.70	LB/TON	13.000	1.300	13.000	0.045S	0.073C	E6 TONS	0.38	0.17	0.39
SEC LEAD - REVERB FURN	0.85	LB/TON	0.938	0.000	5.320	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
SEC ZINC - DISTILLATION	0.68	LB/TON	0.072	0.000	0.072	0.035S	0.039C	E6 TONS	0.38	0.13	0.18
GLASS - CPAL	0.82	LB/TON	2.040	0.000	5.290	0.033S	0.028C	E6 TONS	0.46	0.15	0.15
PET REF - PROG GAS COMB	0.80	LB/TON	230.000	115.000	230.000	0.031S	0.042C	E12 BTU	0.23	0.070	0.12
SEC ZINC - SWEAT	0.85	LB/E6 BTU	0.072	0.000	0.072	0.035S	0.039C	E6 TONS	0.20	0.069	0.091
SEC LEAD - BLAST FURN	0.82	LB/TON	0.157	0.000	0.157	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
PATHOLOGICAL INCINERATOR	0.68	LB/TON	25.000	0.000	25.000	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
SEC MAGNESIUM	0.34	LB/TON	0.347	0.000	0.347	0.035S	0.016S	E6 TONS	0.017	0.0061	0.0028
COFFEE ROASTING	0.82	LB/TON	0.100	0.050	0.100	0.040S	0.000S	E6 TONS	1.5	0.62	0.0

NITROGEN OXIDES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS						TONS/YEAR T-T S N 1985	1 - E/E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
BLR >250 E6 BTU/HR	8311.	4728.	2364.	2433.	7604.	6564.	1040000.	0.199
BOILERS .3-10 MM BTU/HR	979.	642.	405.	405.	979.	922.	56200.	0.098
* BOILERS <.3 MM BTU/HR	397.	299.	239.	239.	397.	317.	80200.	0.506
BLR 10-250 E6 BTU/HR	1498.	1297.	649.	652.	1482.	929.	553000.	0.664
GAS TURBINE ENGINES ELECTRIC UTILITIES	1601.	433.	346.	346.	1601.	534.	1060000.	0.850
INDUSTRIAL/COMMERCIAL INCINERATORS	32.9	11.6	7.1	7.1	32.9	16.0	16800.	0.652
PORTLAND CEMENT	162.	121.	90.4	90.4	162.	137.	25000.	0.350
MIXED FUEL BOILERS - COAL & REFUSE	295.	1.6	1.6	1.7	275.	119.	156000.	0.571
INTERNAL COMBUSTION ENGS SPK IGN	3585.	1917.	1534.	1534.	3585.	2702.	882030.	0.430
* STEEL FOUNDRIES	4.6	2.6	1.9	1.9	4.6	1.9	2600.	1.000
* LIME PROCESSING	16.0	9.8	4.9	4.9	16.0	10.4	5500.	0.500
MUNICIPAL INCINERATORS	39.9	27.3	16.7	16.7	39.9	25.2	14600.	0.633
NITRIC ACID	558.	112.	55.9	132.	80.3	72.2	8100.	0.333
* FERTILIZER - NITRATES	0.99	0.51	0.28	0.28	0.99	0.28	710.	1.000
* GLASS - SODA LIME	93.3	28.1	18.8	48.8	36.0	18.8	17100.	1.000
* BRICK & RELATED CLAY PRODUCTS	3.4	6.6	4.4	4.4	8.4	6.4	1900.	0.499
* COKE OVENS - BY PRODUCT	2.1	1.9	1.4	1.4	2.1	1.4	720.	1.000
GAS TURBINE ENGINES GAS PIPELINE	277.	113.	90.3	90.3	277.	118.	158000.	0.850
MIXED FUEL BOILERS - OIL & REFUSE	62.6	0.16	0.16	0.36	27.2	25.1	2100.	0.080
* CERAMIC CLAY	3.7	2.6	1.7	1.7	3.7	2.7	960.	0.499

NITROGEN OXIDES

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985		
INTERNAL COMBUSTION ENGS D/DF							
EXPLOSIVES - HIGH	1193.	932.	746.	746.	1193.	140000.	0.313
* MINERAL WOOL	316.	129.	70.9	70.9	316.	228000.	0.932
FIBERGLAS MANUF - TEXTILE	0.66	0.55	0.39	0.39	0.66	130.	0.500
AUTOBODY INCINERATORS	8.8	2.8	1.0	1.0	8.8	6200.	0.812
EXPLOSIVES - LOW	0.050	0.013	0.0080	0.0080	0.050	30.0	0.800
ADIPIC ACID	22.0	8.9	4.9	4.9	22.0	15800.	0.930
FIBERGLAS HFG. WOOL PRODUCTS	8.6	5.0	4.2	4.2	8.6	3900.	0.900
DHT/TPA NITRIC ACID OXIDATION	2.1	1.4	0.52	0.52	2.1	880.	0.566
* SEC LEAD - REVERB FURN	4.2	2.1	1.2	1.2	4.2	2700.	0.900
* SEC ZINC - DISTILLATION	1.8	0.23	0.17	0.98	0.31	130.	1.000
* GLASS - 6PAL	0.016	0.011	0.0073	0.0073	0.016	9.2	1.000
PET REF - PROC GAS COMB	1.3	0.37	0.25	0.65	0.49	240.	1.000
* SEC ZINC - SWEAT	33.4	22.1	15.2	15.2	33.4	9000.	0.500
* SEC LEAD - BLAST FURN	0.0085	0.0058	0.0038	0.0038	0.0085	4.7	1.000
* PATHOLOGICAL INCINERATOR	0.011	0.0079	0.0060	0.0060	0.011	4.8	1.000
* SEC MAGNESIUM	0.71	0.55	0.34	0.34	0.71	370.	1.000
* COFFEE ROASTING	0.0029	0.0025	0.0016	0.0016	0.0029	1.3	1.000
	0.066	0.066	0.040	0.040	0.066	10.0	0.500

E
N

NITROGEN OXIDES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N		P	B	C	A	B	C
					U				1975	1985	1985
INTERNAL COMBUSTION ENGS SP: IGN											
INTERNAL COMBUSTION ENGS D/DF	0.58	LB/TON	230.000	131.000	230.000	0.020S	0.087S	E6 TONS	28.7	5.7	25.0
PET REF - PROC GAS COMB	0.58	LB/TON	179.000	123.000	179.000	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
MIXED FUEL BOILERS - COAL & REFUSE	0.85	LB/E6 BTU	230.000	115.000	230.000	0.031S	0.042C	E12 BTU	0.23	0.070	0.12
MIXED FUEL BOILERS - OIL & REFUSE	0.58	LB/TON	35.000	15.000	37.500	0.000S	17.290S	E6 TONS	0.16	0.0	27.0
EXPLOSIVES - HIGH	0.58	LB/TON	15.000	13.800	34.500	0.000S	17.290S	E6 TONS	0.036	0.0	6.2
GAS TURBINE ENGINES ELECTRIC UTILITIES	0.83	LB/TON	169.000	11.500	169.000	0.045S	0.094C	E6 TONS	1.8	0.83	2.7
GAS TURBINE ENGINES GAS PIPELINE	0.22	LB/TON	72.700	10.900	72.700	0.020S	0.270S	E6 TONS	54.1	10.8	146.
EXPLOSIVES - LOW	0.85	LB/TON	60.500	9.080	60.500	0.020S	0.145S	E6 TONS	4.4	0.88	6.4
FIBERGLAS MANUF - TEXTILE	0.83	LB/TON	41.500	2.910	41.500	0.045S	0.094C	E6 TONS	0.52	0.23	0.76
NITRIC ACID EXIST.	0.70	LB/TON	15.300	2.870	15.300	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
PORTLAND CEMENT	0.88	LB/TON	22.300	2.000	52.500	0.050S	0.078C	E6 TONS	11.4	5.7	12.8
FIBERGLASS MFG. W8BL PRODUCTS	0.90	LB/TON	2.600	1.690	2.600	0.025S	0.030C	E6 TONS	103.	25.8	35.4
DPT/TPA NITRIC ACID OXIDATION	0.70	LB/TON	3.620	1.570	3.620	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
ADIPIC ACID	0.85	LB/TON	13.000	1.300	13.000	0.045S	0.073C	E6 TONS	0.38	0.17	0.39
MUNICIPAL INCINERATORS	1.00	LB/TON	12.000	1.200	12.000	0.015C	0.055C	E6 TONS	0.84	0.13	0.59
INDUSTRIAL/COMMERCIAL INCINERATORS	0.56	LB/TON	3.000	1.100	3.000	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
ELR >250 E6 BTU/HR EXIST.	0.58	LB/E6 BTU	1.870	0.650	1.870	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
LINE PROCESSING	0.58	LB/TON	0.582	0.428	0.599	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
BRICK & RELATED CLAY PRODUCTS	0.90	LB/TON	0.834	0.417	0.834	0.050S	0.050C	E6 TONS	26.1	13.1	16.4
	0.80	LB/TON	0.465	0.233	0.465	0.033S	0.027S	E6 TONS	35.7	11.8	9.6

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSION UNITS	K	EMISSION RATES			UNCONT E	GROWTH RATES			CAPACITY/PRODUCTION			INDUSTRY	
			ALLOWABLE E	EMISSIONS E	N		P	B	C	UNITS/YR	A	B		C
CERAMIC CLAY	LB/TON	0.80	0.465	0.233	0.465	0.033S	0.042S	E6 TONS	13.9	4.6	5.8			
20ILERS 3-10 MM BTU/HR	LB/E6 BTU	0.25	0.194	0.175	0.194	0.037S	0.043C	E12 BTU	26491.	9802.	13868.			
BLR 10-250 E6 BTU/HR	LB/E6 BTU	0.32	0.415	0.138	0.417	0.050S	0.014C	E12 BTU	19534.	9767.	2914.			
EXIST. NEW:		0.32	0.411											
MINERAL WOOL														
0.82	LB/TON		0.160	0.080	0.160	0.029S	0.020S	E6 TONS	8.4	2.5	1.7			
COFFEE ROASTING														
0.85	LB/TON		0.100	0.050	0.100	0.040S	0.000S	E6 TONS	1.5	0.62	0.0			
20ILERS 4.3 MM BTU/HR														
0.30	LB/E6 BTU		0.081	0.040	0.081	0.020S	0.029C	E12 BTU	24572.	4914.	8131.			
AUTOMODY INCINERATORS														
0.90	LB/PRD UNT		0.100	0.020	0.100	0.039S	0.280S	E6 PU	0.29	0.11	0.82			
GLASS - 6PAL														
0.80	LB/TON		2.040	0.000	5.290	0.033S	0.028C	E6 TONS	0.46	0.15	0.15			
GLASS - 80DA LIME														
0.80	LB/TON		2.040	0.000	5.290	0.033S	0.028S	E6 TONS	34.4	11.4	9.6			
SEC LEAD - REVERB FURN														
0.68	LB/TON		0.938	0.000	5.320	0.024S	0.032C	E6 TONS	0.71	0.17	0.26			
STEEL FOUNDRIES														
0.90	LB/TON		0.200	0.000	0.200	0.028S	0.073S	E6 TONS	29.3	8.2	21.4			
SEC ZINC - DISTILLATION														
0.82	LB/TON		0.072	0.000	0.072	0.035S	0.039C	E6 TONS	0.38	0.13	0.18			
SEC LEAD - BLAST FURN														
0.68	LB/TON		0.157	0.000	0.157	0.024S	0.032C	E6 TONS	0.15	0.036	0.055			
SEC ZINC - SWEAT														
0.82	LB/TON		0.072	0.000	0.072	0.035S	0.039C	E6 TONS	0.20	0.069	0.091			
SEC MAGNESIUM														
0.82	LB/TON		0.347	0.000	0.347	0.035S	0.016S	E6 TONS	0.017	0.0061	0.0028			
FERTILIZER - NITRATES														
0.77	LB/TON		0.125	0.000	0.125	0.045S	0.070C	E6 TONS	10.5	4.7	10.2			
COKE OVENS - 8Y PRODUCT														
0.93	LB/TON		0.054	0.000	0.054	0.028S	0.010S	E6 TONS	75.5	21.1	7.5			
PATHOLOGICAL INCINERATOR														
0.34	LB/TON		25.000	0.000	25.000	0.039S	0.026C	E6 TONS	0.13	0.051	0.038			

NITROGEN OXIDES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985	
INTERNAL COMBUSTION ENGS SPK IGN	3585.	1917.	1534.	1534.	3585.	2702.	0.430
INTERNAL COMBUSTION ENGS D/DF	1193.	932.	746.	746.	1193.	1053.	0.313
PET REF - PROC GAS CMB	33.4	22.1	15.2	15.2	33.4	24.3	0.500
MIXED FUEL BOILERS - COAL & REFUSE	295.	1.6	1.6	1.7	275.	119.	0.571
MIXED FUEL BOILERS - OIL & REFUSE	62.6.	0.16	0.16	0.36	27.2	25.1	0.080
EXPLOSIVES - HIGH	316.	129.	70.9	70.9	316.	87.6	0.932
GAS TURBINE ENGINES ELECTRIC UTILITIES	1601.	433.	346.	346.	1601.	534.	0.850
GAS TURBINE ENGINES GAS PIPELINE	277.	113.	90.3	90.3	277.	118.	0.850
EXPLOSIVES - LOW	22.0	8.9	4.9	4.9	22.0	6.1	0.930
FIBERGLAS MANUF - TEXTILE	8.8	2.8	1.0	1.0	8.8	2.5	0.812
NITRIC ACID	558.	112.	55.9	132.	80.3	72.2	0.333
PORTLAND CEMENT	162.	121.	90.4	90.4	162.	137.	0.350
FIBERGLASS MFG. WOOL PRODUCTS	2.1	1.4	0.52	0.52	2.1	1.2	0.566
DMT/TPA NITRIC ACID OXIDATION	4.2	2.1	1.2	1.2	4.2	1.5	0.900
ADIPIC ACID	8.6	5.0	4.2	4.2	8.6	4.7	0.900
MUNICIPAL INCINERATORS	39.9	27.3	16.7	16.7	39.9	25.2	0.633
INDUSTRIAL/COMMERCIAL INCINERATORS	32.9	11.6	7.1	7.1	32.9	16.0	0.652
BLR >250 E6 BTU/HR	8311.	4728.	2364.	2433.	7604.	6564.	0.199
* LIME PROCESSING	16.0	9.8	4.9	4.9	16.0	10.4	0.500
* BRICK & RELATED CLAY PRODUCTS	8.4	6.6	4.4	4.4	8.4	6.4	0.499

NITROGEN OXIDES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T-S-N 1985	I-E/E N-S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985		
* CERAMIC CLAY							
BOILERS 3-10 MM BTU/HR	3.7	2.6	1.7	1.7	3.7	960.	0.499
BLR 10-250 E6 BTU/HR	979.	642.	405.	405.	979.	56200.	0.098
MINERAL WOOL	1498.	1200.	649.	652.	1482.	553000.	0.664
COFFEE ROASTING	0.66	0.55	0.39	0.39	0.66	130.	0.500
BOILERS <3 MM BTU/HR	0.066	0.066	0.040	0.040	0.066	10.0	0.500
AUTOBODY INCINERATORS	397.	299.	239.	239.	397.	80200.	0.506
GLASS - 6PAL	0.050	0.013	0.0080	0.0080	0.050	30.0	0.800
GLASS - SODA LIME	1.3	0.37	0.25	0.65	0.49	240.	1.000
SEC LEAD - REVERB FURN	93.3	28.1	18.8	48.8	36.0	17100.	1.000
STEEL FOUNDRIES	1.8	0.23	0.17	0.94	0.31	130.	1.000
SEC ZINC - DISTILLATION	4.6	2.6	1.9	1.9	4.6	2600.	1.000
SEC LEAD - BLAST FURN	0.016	0.011	0.0073	0.0073	0.016	9.2	1.000
SEC ZINC - SWEAT	0.011	0.0079	0.0060	0.0060	0.011	4.8	1.000
SEC MAGNESIUM	0.0085	0.0058	0.0038	0.0038	0.0085	4.7	1.000
FERTILIZER - NITRATES	0.0029	0.0025	0.0016	0.0016	0.0029	1.3	1.000
COKE OVENS - BY PRODUCT	0.99	0.51	0.28	0.28	0.99	710.	1.000
PATHOLOGICAL INCINERATOR	2.1	1.9	1.4	1.4	2.1	720.	1.000
	0.71	0.55	0.34	0.34	0.71	370.	1.000

E_S (Existing)

NITROGEN OXIDES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE E S	EMISSION RATES		GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C 1985
				E N	UNCONT E U	P B	P C	UNITS/YR	A 1975	B 1985	
INTERNAL COMBUSTION ENGS SPK IGN											
PET REF - PROC GAS COMB	0.58	LB/TON	230.000	131.000	230.000	0.020S	0.087S	E6 TONS	28.7	5.7	25.0
INTERNAL COMBUSTION ENGS D/DF	0.85	LB/E6 BTU	230.000	115.000	230.000	0.031S	0.042C	E12 BTU	0.23	0.070	0.12
EXPLOSIVES - HIGH	0.58	LB/TON	179.000	123.000	179.000	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
GAS TURBINE ENGINES	0.83	LB/TON	169.000	11.500	169.000	0.045S	0.094C	E6 TONS	1.8	0.83	2.7
GAS TURBINE ENGINES ELECTRIC UTILITIES	0.22	LB/TON	72.700	10.900	72.700	0.020S	0.270S	E6 TONS	54.1	10.8	146.
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	60.500	9.080	60.500	0.020S	0.145S	E6 TONS	4.4	0.88	6.4
EXPLOSIVES - LOW	0.83	LB/TON	41.500	2.910	41.500	0.045S	0.094C	E6 TONS	0.52	0.23	0.76
FIXED FUEL BOILERS - COAL & REFUSE	0.58	LB/TON	35.000	15.000	37.500	0.000S	17.290S	E6 TONS	0.16	0.0	27.0
PATHOLOGICAL INCINERATOR	0.34	LB/TON	25.000	0.000	25.000	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
NITRIC ACID	EXIST.	LB/TON	22.300	2.000	52.500	0.050S	0.078C	E6 TONS	11.4	5.7	12.8
NEW	0.88		3.000								
FIBERGLAS MANUF - TEXTILE	0.70	LB/TON	15.300	2.870	15.300	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
FIXED FUEL BOILERS - OIL & REFUSE	0.58	LB/TON	15.000	13.800	34.500	0.000S	17.290S	E6 TONS	0.036	0.0	6.2
DMT/TPA NITRIC ACID OXIDATION	0.85	LB/TON	13.000	1.300	13.000	0.045S	0.073C	E6 TONS	0.38	0.17	0.39
ADIPIC ACID	1.00	LB/TON	12.000	1.200	12.000	0.015C	0.055C	E6 TONS	0.84	0.13	0.59
FIBERGLASS MFG. WOOL PRODUCTS	0.70	LB/TON	3.620	1.570	3.620	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
MUNICIPAL INCINERATORS	0.56	LB/TON	3.000	1.100	3.000	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
PORTLAND CEMENT	0.90	LB/TON	2.600	1.690	2.600	0.025S	0.030C	E6 TONS	103.	25.8	35.4
GLASS - 6PAL	0.80	LB/TON	2.040	0.000	5.290	0.033S	0.028C	E6 TONS	0.46	0.15	0.15
GLASS - SODA LIME	0.80	LB/TON	2.040	0.000	5.290	0.033S	0.028S	E6 TONS	34.4	11.4	9.6
INDUSTRIAL/COMMERCIAL INCINERATORS	0.38	LB/TON	1.870	0.650	1.870	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
SEC LEAD - REVERB FURN	0.68	LB/TON	0.938	0.000	5.320	0.024S	0.032C	E6 TONS	0.71	0.17	0.26

NITROGEN OXIDES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION/ UNITS	EMISSION RATES		UNCENT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION				
			ALLOWABLE E	E		N	P	B	C	A	B	C	
			S		U						1975	1985	1985
											UNITS/YR		
LIME PROCESSING	0.90	LB/TON	0.834	0.417	0.834	0.050S	0.050C	0.050C	0.050S	0.050C	26.1	13.1	16.4
BLR >250 E6 BTU/HR EXIST.	0.58	LB/E6 BTU	0.582	0.428	0.599	0.050S	0.055C	0.055C	0.050S	0.055C	28011.	14006.	19836.
NEW CERAMIC CLAY	0.58		0.534										
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.465	0.233	0.465	0.033S	0.042S	0.042S	0.033S	0.042S	13.9	4.6	5.8
BLR 10-250 E6 BTU/HR EXIST.	0.80	LB/TON	0.465	0.233	0.465	0.033S	0.027S	0.027S	0.033S	0.027S	35.7	11.8	9.6
NEW BLR 10-250 E6 BTU/HR EXIST.	0.32	LB/E4 BTU	0.415	0.138	0.417	0.050S	0.014C	0.014C	0.050S	0.014C	19534.	9767.	2914.
NEW SEC MAGNESIUM	0.32		0.411										
SEC MAGNESIUM	0.82	LB/TON	0.347	0.000	0.347	0.035S	0.016S	0.016S	0.035S	0.016S	0.017	0.0061	0.0028
STEEL FOUNDRIES	0.90	LB/TON	0.200	0.000	0.200	0.028S	0.073S	0.073S	0.028S	0.073S	29.3	8.2	21.4
BOILERS 3-10 MM BTU/HR 0.25	0.25	LB/E6 BTU	0.194	0.175	0.194	0.037S	0.043C	0.043C	0.037S	0.043C	26491.	9802.	13868.
MINERAL WOOL	0.82	LB/TON	0.160	0.080	0.160	0.029S	0.020S	0.020S	0.029S	0.020S	8.4	2.5	1.7
SEC LEAD - BLAST FURN	0.68	LB/TON	0.157	0.000	0.157	0.024S	0.032C	0.032C	0.024S	0.032C	0.15	0.036	0.055
FERTILIZER - NITRATES	0.77	LB/TON	0.125	0.000	0.125	0.045S	0.070C	0.070C	0.045S	0.070C	10.5	4.7	10.2
AUTOBODY INCINERATORS	0.90	LB/PRD UNT	0.100	0.020	0.100	0.039S	0.280S	0.280S	0.039S	0.280S	0.29	0.11	0.82
COFFEE ROASTING	0.85	LB/TON	0.100	0.050	0.100	0.040S	0.000S	0.000S	0.040S	0.000S	1.5	0.62	0.0
BOILERS <3 MM BTU/HR	0.30	LB/E6 BTU	0.081	0.040	0.081	0.020S	0.029C	0.029C	0.020S	0.029C	24572.	4914.	8131.
SEC ZINC - DISTILLATION	0.82	LB/TON	0.072	0.000	0.072	0.035S	0.039C	0.039C	0.035S	0.039C	0.38	0.13	0.18
SEC ZINC - SWEAT	0.82	LB/TON	0.072	0.000	0.072	0.035S	0.039C	0.039C	0.035S	0.039C	0.20	0.069	0.091
COKE OVENS - BY PRODUCT	0.93	LB/TON	0.054	0.000	0.054	0.028S	0.010S	0.010S	0.028S	0.010S	75.5	21.1	7.5

NITROGEN OXIDES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985		
INTERNAL COMBUSTION ENGS SPK IGN	3585.	1917.	1534.	1534.	3585.	2702.	0.430
PET REF - PROC GAS COMB	33.4	22.1	15.2	15.2	33.4	24.3	0.500
INTERNAL COMBUSTION ENGS D/DF	1193.	932.	746.	746.	1193.	1053.	0.313
EXPLOSIVES - HIGH	316.	129.	70.9	70.9	316.	87.6	0.932
GAS TURBINE ENGINES ELECTRIC UTILITIES	1601.	433.	346.	346.	1601.	534.	0.850
GAS TURBINE ENGINES GAS PIPELINE	277.	113.	90.3	90.3	277.	118.	0.850
EXPLOSIVES - LOW	22.0	8.9	4.9	4.9	22.0	6.1	0.930
MIXED FUEL BOILERS - COAL & REFUSE	295.	1.6	1.6	1.7	275.	119.	0.571
* PATHOLOGICAL INCINERATOR	0.71	0.55	0.34	0.34	0.71	0.34	1.000
NITRIC ACID	558.	112.	55.9	132.	80.3	72.2	0.333
FIBERGLAS MANUF - TEXTILE	8.8	2.8	1.0	1.0	8.8	2.5	0.812
MIXED FUEL BOILERS - OIL & REFUSE	62.6	0.16	0.16	0.36	27.2	25.1	0.080
DMT/TPA NITRIC ACID OXIDATION	4.2	2.1	1.2	1.2	4.2	1.5	0.900
ADIPIC ACID	8.6	5.0	4.2	4.2	8.6	4.7	0.900
FIBERGLASS MFG. WOOL PRODUCTS	2.1	1.4	0.52	0.52	2.1	1.2	0.566
MUNICIPAL INCINERATORS	39.9	27.3	16.7	16.7	39.9	25.2	0.633
PORTLAND CEMENT	162.	121.	90.4	90.4	162.	137.	0.350
* GLASS - OPAL	1.3	0.37	0.25	0.65	0.49	0.25	1.000
* GLASS - SODA LIME	93.3	28.1	18.8	48.8	36.0	18.8	1.000
INDUSTRIAL/COMMERCIAL INCINERATORS	32.9	11.6	7.1	7.1	32.9	16.0	0.652

NITROGEN OXIDES

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985		
* SEC LEAD - REVERB FURN	1.8	0.23	0.17	0.98	0.31	130.	1.000
* LIME PROCESSING	16.0	9.8	4.9	4.9	16.0	5500.	0.500
BLR >250 E6 BTU/HR	8311.	4728.	2364.	2433.	7604.	1040000.	0.199
* CERAMIC CLAY	3.7	2.6	1.7	1.7	3.7	960.	0.499
* BRICK & RELATED CLAY PRODUCTS	8.4	6.6	4.4	4.4	8.4	1900.	0.499
BLR 10-250 E6 BTU/HR	1498.	1297.	649.	652.	1482.	553000.	0.664
* SEC MAGNESIUM	0.0029	0.0025	0.0016	0.0016	0.0029	1.3	1.000
* STEEL FOUNDRIES	4.6	2.6	1.9	1.9	4.6	2600.	1.000
BOILERS .3-10 MM BTU/HR	979.	642.	405.	405.	979.	56200.	0.098
* MINERAL WOOL	0.66	0.55	0.39	0.39	0.66	130.	0.500
* SEC LEAD - BLAST FURN	0.011	0.0079	0.0060	0.0060	0.011	4.8	1.000
* FERTILIZER - NITRATES	0.99	0.51	0.28	0.28	0.99	710.	1.000
AUTOBODY INCINERATORS	0.050	0.013	0.0080	0.0080	0.050	30.0	0.800
* COFFEE ROASTING	0.066	0.066	0.040	0.040	0.066	10.0	0.500
BOILERS <.3 MM BTU/HR	397.	299.	239.	239.	397.	80200.	0.506
* SEC ZINC - DISTILLATION	0.016	0.011	0.0073	0.0073	0.016	9.2	1.000
* SEC ZINC - SWEAT	0.0085	0.0058	0.0038	0.0038	0.0085	4.7	1.000
* COKE OVENS - BY PRODUCT	2.1	1.9	1.4	1.4	2.1	720.	1.000

E_S (New)

NITROGEN OXIDES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			ALLOWABLE E	ALLOWABLE S		N	E	U	P	B	C
NITRIC ACID	EXIST-	0.88	22.300	2.000	52.500	0.050S	0.078C	11.4	1975	1985	1985
	NEW-	0.88	3.000	0.428	0.599	0.050S	0.055C	28011.	14006.	19836.	12.8
PLR >250 E6 BTU/HR	EXIST-	0.58	0.582	0.138	0.417	0.050S	0.014C	19534.	9767.	2914.	
	NEW-	0.58	0.534								
PLR 10-250 E6 BTU/HR	EXIST-	0.32	0.415								
	NEW-	0.32	0.411								

NITROGEN OXIDES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T-T S N 1985	1 - E/E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985	
NITRIC ACID							
BLR >250 E6 BTU/HR	558.	112.	55.9	132.	80.3	72.2	0.333
BLR 10-250 E6 BTU/HR	8311.	4728.	2364.	2433.	7604.	6564.	0.199
	1498.	1297.	649.	652.	1482.	929.	0.664

E
U

NITROGEN OXIDES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION ALLOWABLE E S	EMISSION RATES		UNCON- TAINED E U	GROWTH RATES DECIMAL/YR		C	UNITS/YR	CAPACITY/PRODUCTION		C 1985
				E N	P B		P	A 1975			B 1985		
INTERNAL COMBUSTION ENGS SPK IGN													
0.58 LB/TON			230.000	131.000	0.0205	230.000	0.0875			E6 TONS	28.7	5.7	25.0
PET REF - PROC GAS COMB													
0.85 LB/E6 BTU			230.000	115.000	0.0315	230.000	0.042C			E12 BTU	0.23	0.070	0.12
INTERNAL COMBUSTION ENGS D/DF													
0.58 LB/TON			179.000	123.000	0.0205	179.000	0.0285			E6 TONS	18.0	3.6	5.0
EXPLOSIVES - HIGH													
0.83 LB/TON			169.000	11.500	0.0455	169.000	0.094C			E6 TONS	1.8	0.83	2.7
GAS TURBINE ENGINES ELECTRIC UTILITIES													
0.22 LB/TON			72.700	10.900	0.0205	72.700	0.2705			E6 TONS	5.1	10.8	146.
GAS TURBINE ENGINES GAS PIPELINE													
0.85 LB/TON			60.500	9.080	0.0205	60.500	0.1455			E6 TONS	4.4	0.88	6.4
NITRIC ACID													
EXIST.	0.88	LB/TON	22.300	2.000	0.0505	52.500	0.078C			E6 TONS	11.4	5.7	12.8
NEW	0.88		3.000										
EXPLOSIVES - LOW													
0.83 LB/TON			41.500	2.910	0.0455	41.500	0.094C			E6 TONS	0.52	0.23	0.76
MIXED FUEL BOILERS - COAL & REFUSE													
0.58 LB/TON			35.000	15.000	0.0005	37.500	17.2905			E6 TONS	0.16	0.0	27.0
MIXED FUEL BOILERS - OIL & REFUSE													
0.58 LB. TON			15.000	13.800	0.0005	34.500	17.2905			E6 TONS	0.036	0.0	6.2
PATHOLOGICAL INCINERATOR													
0.34 LB/TON			25.000	0.000	0.0395	25.000	0.026C			E6 TONS	0.13	0.051	0.038
FIBERGLAS MANUF - TEXTILE													
0.70 LB/TON			15.300	2.870	0.0635	15.300	0.122C			E6 TONS	0.52	0.32	1.1
DMT/TPA NITRIC ACID OXIDATION													
0.85 LB/TON			13.000	1.300	0.0455	13.000	0.073C			E6 TONS	0.38	0.17	0.39
ADIPIC ACID													
1.00 LB/TON			12.000	1.200	0.015C	12.000	0.055C			E6 TONS	0.84	0.13	0.59
SEC LEAD - REVERB FURN													
0.68 LB/TON			0.938	0.000	0.0245	5.320	0.032C			E6 TONS	0.71	0.17	0.26
GLASS - SODA LIME													
0.80 LB/TON			2.040	0.000	0.0335	5.290	0.0285			E6 TONS	34.4	11.4	9.6
GLASS - OPAL													
0.80 LB/TON			2.040	0.000	0.0335	5.290	0.028C			E6 TONS	0.46	0.15	0.15
FIBERGLASS MFG. WHEEL PRODUCTS													
0.70 LB/TON			3.620	1.570	0.0635	3.620	0.042C			E6 TONS	1.1	0.68	0.55
MUNICIPAL INCINERATORS													
0.56 LB/TON			3.000	1.100	0.0395	3.000	0.0465			E6 TONS	32.5	12.7	14.9
PORTLAND CEMENT													
0.90 LB/TON			2.600	1.690	0.0255	2.600	0.030C			E6 TONS	103.	25.8	35.4
INDUSTRIAL/COMMERCIAL INCINERATORS													
0.38 LB/TON			1.870	0.650	0.0395	1.870	0.110C			E6 TONS	32.6	12.7	60.0

NITROGEN OXIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR		UNITS/YR	INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E	EMISSION N		P	B		A	B	C
LIME PROCESSING											
BLR >250 E6 BTU/HR	0.90	LB/TON	0.834	0.417	0.834	0.050S	0.050C	E6 TONS	26.1	13.1	16.4
BLR EXIST=	0.58	LB/E6 BTU	0.582	0.428	0.599	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
BLR NEW=	0.58		0.534								
CERAMIC CLAY											
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.465	0.233	0.465	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
BLR 10-250 E6 BTU/HR	0.80	LB/TON	0.465	0.233	0.465	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
BLR EXIST=	0.32	LB/E6 BTU	0.415	0.138	0.417	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
BLR NEW=	0.32		0.411								
SEC MAGNESIUM											
STEEL FOUNDRIES	0.82	LB/TON	0.347	0.000	0.347	0.035S	0.016S	E6 TONS	0.017	0.0061	0.0028
BOILERS <3-10 MM BTU/HR	0.90	LB/TON	0.200	0.000	0.200	0.028S	0.073S	E6 TONS	29.3	8.2	21.4
MINERAL WOOL	0.25	LB/E6 BTU	0.194	0.175	0.194	0.037S	0.043C	E12 BTU	26491.	9802.	13868.
SEC LEAD - BLAST FURN	0.82	LB/TON	0.160	0.080	0.160	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
FERTILIZER - NITRATES	0.68	LB/TON	0.157	0.000	0.157	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
AUTOBODY INCINERATORS	0.77	LB/TON	0.125	0.000	0.125	0.045S	0.070C	E6 TONS	10.5	4.7	10.2
COFFEE ROASTING	0.90	LB/PRD UNIT	0.100	0.020	0.100	0.039S	0.280S	E6 PU	0.29	0.11	0.82
BOILERS <3 MM BTU/HR	0.85	LB/TON	0.100	0.050	0.100	0.040S	0.000S	E6 TONS	1.5	0.62	0.0
SEC ZINC - DISTILLATION	0.30	LB/E6 BTU	0.081	0.040	0.081	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
SEC ZINC - SWEAT	0.82	LB/TON	0.072	0.000	0.072	0.035S	0.039C	E6 TONS	0.38	0.13	0.18
COKE OVENS - BY PRODUCT	0.82	LB/TON	0.072	0.000	0.072	0.035S	0.039C	E6 TONS	0.20	0.069	0.091
COKE OVENS - BY PRODUCT	0.93	LB/TON	0.054	0.000	0.054	0.028S	0.010S	E6 TONS	75.5	21.1	7.5

NITROGEN OXIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985		
INTERNAL COMBUSTION ENGS SPK IGN							
PET REF - PRBC GAS COMB	3585. 33.4	1917. 22.1	1534. 15.2	1534. 15.2	3585. 33.4	882000. 9000.	0.430 0.500
INTERNAL COMBUSTION ENGS D/OF	1193. 316.	932. 129.	746. 70.9	746. 70.9	1193. 316.	140000. 228000.	0.313 0.932
EXPLOSIVES - HIGH							
GAS TURBINE ENGINES ELECTRIC UTILITIES	1601. 433.		346. 346.	346. 346.	1601. 316.	1060000. 158000.	0.450 0.850
GAS TURBINE ENGINES GAS PIPELINE	277. 113.		90.3 55.9	90.3 132.	277. 80.3		
NITRIC ACID							
EXPLOSIVES - LOW	558. 22.0	112. 8.9	55.9 4.9	132. 4.9	80.3 22.0	8100. 15800.	0.333 0.930
MIXED FUEL BOILERS - COAL & REFUSE	295. 1.6		1.6 0.16	1.7 0.36	275. 27.2	156000. 2100.	0.571 0.080
MIXED FUEL BOILERS - OIL & REFUSE	62.6 0.71	0.16 0.55	0.16 0.34	0.36 0.34	27.2 0.71		
PATHOLOGICAL INCINERATOR							
FIBERGLAS MANUF - TEXTILE	8.8 4.2	2.8 2.1	1.0 1.2	1.0 1.2	8.8 4.2	370. 6200.	1.000 0.812
DHT/TPA NITRIC ACID OXIDATION							
ADIPIC ACID							
SEC LEAD - REVERB FURN	3.6 1.8	5.0 0.23	4.2 0.17	4.2 0.98	8.6 0.31	2700. 3900.	0.900 0.900
GLASS - SODA LIME	93.3	28.1	18.8	48.8	36.0	130.	1.000
GLASS - BPAL							
FIBERGLASS MFG. WOOL PRODUCTS	1.3 2.1	0.37 1.4	0.25 0.52	0.65 0.52	0.49 2.1	17100. 240.	1.000 1.000
MUNICIPAL INCINERATORS	39.9	27.3	16.7	16.7	39.9	880.	0.566
PORTLAND CEMENT	162.	121.	90.4	90.4	162.	14600. 25000.	0.633 0.350

NITROGEN OXIDES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985		
INDUSTRIAL/COMMERCIAL INCINERATORS							
• LIME PROCESSING	32.9	11.6	7.1	7.1	32.9	16.0	0.652
BLR >250 E6 BTU/HR	16.0	9.8	4.9	4.9	16.0	10.4	0.500
• CERAMIC CLAY	8311.	4728.	2364.	2433.	7604.	6564.	0.199
• BRICK & RELATED CLAY PRODUCTS	3.7	2.6	1.7	1.7	3.7	2.7	0.499
BLR 10-250 E6 BTU/HR	3.4	6.6	4.4	4.4	8.4	6.4	0.499
• SEC MAGNESIUM	1498.	1297.	649.	652.	1482.	929.	0.664
• STEEL FOUNDRIES	0.0029	0.0025	0.0016	0.0016	0.0029	0.0016	1.000
BOILERS .3-10 MM BTU/HR	4.6	2.6	1.9	1.9	4.6	1.9	1.000
• MINERAL WOOL	973.	642.	405.	405.	975.	922.	0.098
• SEC LEAD - BLAST FURN	0.66	0.55	0.39	0.39	0.66	0.53	0.500
• FERTILIZER - NITRATES	0.011	0.0079	0.0060	0.0060	0.011	0.0060	1.000
AUTOBODY INCINERATORS	0.99	0.51	0.28	0.28	0.99	0.28	1.000
• COFFEE ROASTING	0.050	0.013	0.0080	0.0080	0.050	0.016	0.800
• BOILERS <.3 MM BTU/HR	0.066	0.066	0.040	0.040	0.066	0.053	0.500
• SEC ZINC - DISTILLATION	397.	299.	239.	239.	397.	317.	0.506
• SEC ZINC - SWEAT	0.016	0.011	0.0073	0.0073	0.016	0.0073	1.000
• COKE OVENS - BY PRODUCT	0.0085	0.0058	0.0038	0.0038	0.0085	0.0038	1.000
	2.1	1.9	1.4	1.4	2.1	1.4	1.000

$$\underline{1 - E_N/E_S}$$

NITROGEN OXIDES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			UNITS/YR	CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	E N		P B	P C	A 1975		B 1985		
GLASS - SODA LIME	0.80	LB/TON	2.040	0.000	5.290	0.033S	0.028S	E6 TONS	34.4	11.4	9.6	
STEEL FOUNDRIES	0.90	LB/TON	0.200	0.000	0.200	0.028S	0.073S	E6 TONS	29.3	8.2	21.4	
FERTILIZER - NITRATES	0.77	LB/TON	0.125	0.000	0.125	0.045S	0.070C	E6 TONS	10.5	4.7	10.2	
COKE OVENS - BY PRODUCT	0.93	LB/TON	0.054	0.000	0.054	0.028S	0.010S	E6 TONS	75.5	21.1	7.5	
PATHOLOGICAL INCINERATOR	0.34	LB/TON	25.000	0.000	25.000	0.039S	0.026C	E6 TONS	0.13	0.051	0.038	
GLASS - BPAL	0.80	LB/TON	2.040	0.000	5.290	0.033S	0.028C	E6 TONS	0.46	0.15	0.15	
SEC LEAD - REVERB FURN	0.68	LB/TON	0.938	0.070	5.320	0.024S	0.032C	E6 TONS	0.71	0.17	0.26	
SEC ZINC - DISTILLATION	0.82	LB/TON	0.072	0.000	0.072	0.035S	0.039C	E6 TONS	0.38	0.13	0.18	
SEC LEAD - BLAST FURN	0.68	LB/TON	0.157	0.000	0.157	0.024S	0.032C	E6 TONS	0.15	0.036	0.055	
SEC ZINC - SWEAT	0.82	LB/TON	0.072	0.000	0.072	0.035S	0.039C	E6 TONS	0.20	0.069	0.091	
SEC MAGNESIUM	0.82	LB/TON	0.347	0.000	0.347	0.035S	0.016S	E6 TONS	0.017	0.0061	0.0028	
EXPLOSIVES - HIGH	0.83	LB/TON	169.000	11.500	169.000	0.045S	0.094C	E6 TONS	1.8	0.83	2.7	
EXPLOSIVES - LOW	0.83	LB/TON	41.500	2.910	41.500	0.045S	0.094C	E6 TONS	0.52	0.23	0.76	
ADIPIC ACID	1.00	LB/TON	12.000	1.200	12.000	0.015C	0.055C	E6 TONS	0.84	0.13	0.59	
DMT/TPA NITRIC ACID OXIDATION	0.85	LB/TON	13.000	1.300	13.000	0.045S	0.073C	E6 TONS	0.38	0.17	0.39	
GAS TURBINE ENGINES ELECTRIC UTILITIES	0.22	LB/TON	72.700	10.900	72.700	0.020S	0.270S	E6 TONS	54.1	10.8	146.	
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	60.500	9.080	60.500	0.020S	0.145S	E6 TONS	4.4	0.88	6.4	
FIBERGLAS MANUF - TEXTILE	0.70	LB/TON	15.300	2.870	15.300	0.063S	0.122C	E6 TONS	0.52	0.32	1.1	
AUTOBODY INCINERATORS	0.90	LB/PRD UNT	0.100	0.020	0.100	0.039S	0.280S	E6 PU	0.29	0.11	0.82	
ELR 10-250 E6 BTU/HR	0.32	LB/E6 BTU	0.415	0.138	0.417	0.050S	0.014C	E12 BTU	19534.	9767.	2914.	
EXIST. NEW	0.32	INCINERATORS	0.411									
INDUSTRIAL/COMMERCIAL INCINERATORS	0.38	LB/TON	1.870	0.650	1.870	0.039S	0.110C	E6 TONS	32.6	12.7	60.0	

NITROGEN OXIDES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					T S N 1985	T S N 1985	T S N 1985	TONS/YEAR T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985					
* GLASS - SODA LIME	93.3	28.1	18.8	48.8	36.0	18.8	17100.		1-000	
* STEEL FOUNDRIES	4.6	2.6	1.9	1.9	4.6	1.9	2600.		1-000	
* FERTILIZER - NITRATES	0.99	0.51	0.28	0.28	0.99	0.28	710.		1-000	
* COKE OVENS - BY PRODUCT	2.1	1.9	1.4	1.4	2.1	1.4	720.		1-000	
* PATHOLOGICAL INCINERATOR	0.7	0.55	0.34	0.34	0.71	0.34	370.		1-000	
* GLASS - 6PAL	1.3	0.37	0.25	0.65	0.49	0.25	240.		1-000	
* SEC LEAD - REVERB FURN	1.8	0.23	0.17	0.98	0.31	0.17	130.		1-000	
* SEC ZINC - DISTILLATION	0.016	0.011	0.0073	0.0073	0.016	0.0073	9.2		1-000	
* SEC LEAD - BLAST FURN	0.011	0.0079	0.0060	0.0060	0.011	0.0060	4.8		1-000	
* SEC ZINC - SWEAT	0.0085	0.0058	0.0038	0.0038	0.0085	0.0038	4.7		1-000	
* SEC MAGNESIUM	0.0029	0.0025	0.0016	0.0016	0.0029	0.0016	1.3		1-000	
EXPLOSIVES - HIGH	316.	129.	70.9	70.9	316.	87.6	228000.		0.932	
EXPLOSIVES - LOW	22.0	8.9	4.9	4.9	22.0	6.1	15800.		0.930	
ADIPIC ACID	8.6	5.0	4.2	4.2	8.6	4.7	3900.		0.900	
DMT/TPA NITRIC ACID OXIDATION	4.2	2.1	1.2	1.2	4.2	1.5	2700.		0.900	
GAS TURBINE ENGINES ELECTRIC UTILITIES	1601.	433.	346.	346.	1601.	534.	1060000.		0.850	
GAS TURBINE ENGINES GAS PIPELINE	277.	113.	90.3	90.3	277.	118.	158000.		0.850	
FIBERGLAS MANUF - TEXTILE	8.8	2.8	1.0	1.0	8.8	2.5	6200.		0.812	
AUTOMOBILE INCINERATORS	0.050	0.013	0.0080	0.0080	0.050	0.016	30.0		0.800	
BLR 10-250 E6 BTU/HR	1498.	1297.	649.	652.	1482.	929.	553000.		0.664	

NITROGEN OXIDES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985		
INDUSTRIAL/COMMERCIAL INCINERATORS							
MUNICIPAL INCINERATORS	32.9	11.6	7.1	7.1	32.9	16.0	0.652
MIXED FUEL BOILERS - COAL & REFUSE	39.9	27.3	16.7	16.7	39.9	25.2	0.633
FIBERGLASS MFG. WOOL PRODUCTS	295.	1.6	1.6	1.7	275.	119.	0.571
• BOILERS < 3 MM BTU/HR	2.1	1.4	0.52	0.52	2.1	1.2	0.566
• MINERAL WOOL	397.	299.	239.	239.	397.	317.	0.506
• LIME PROCESSING	0.66	0.55	0.39	0.39	0.66	0.53	0.500
PET REF - PROC GAS COMB	16.0	9.8	4.9	4.9	16.0	10.4	0.500
• COFFEE ROASTING	33.4	22.1	15.2	15.2	33.4	24.3	0.500
• BRICK & RELATED CLAY PRODUCTS	0.066	0.066	0.040	0.040	0.066	0.053	0.500
• CERAMIC CLAY	8.4	6.6	4.4	4.4	8.4	6.4	0.499
INTERNAL COMBUSTION ENGS SPK IGN	3.7	2.6	1.7	1.7	3.7	2.7	0.499
PORTLAND CEMENT	3585.	1917.	1534.	1534.	3585.	2702.	0.430
NITRIC ACID	162.	121.	90.4	90.4	162.	137.	0.350
INTERNAL COMBUSTION ENGS D/DF	558.	412.	55.9	132.	80.3	72.2	0.333
BLR > 250 E6 BTU/HR	1193.	932.	746.	746.	1193.	1053.	0.313
BOILERS .3-10 MM BTU/HR	8311.	4728.	2364.	2433.	7604.	6564.	0.199
MIXED FUEL BOILERS - OIL & REFUSE	979.	642.	405.	405.	979.	922.	0.098
	62.6	0.16	0.16	0.36	27.2	25.1	0.080

P
B

NITROGEN OXIDES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR		UNITS/YR	CAPACITY/PRODUCTION		
			ALLOWABLE F	EMISSION E		P	B		A	B	C
FIBERGLASS MANUF - TEXTILE											
FIBERGLASS MFG. WHOL PRODUCTS	0.70	LB/TON	15.300	2.870	15.300	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
NITRIC ACID	0.70	LB/TON	3.620	1.570	3.620	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
EXIST. NEW	0.88	LB/TON	22.300	2.000	52.500	0.050S	0.078C	E6 TONS	11.4	5.7	12.8
BLR >250 E6 BTU/HR	0.88	LB/TON	3.000								
EXIST. NEW	0.58	LB/E6 BTU	0.582	0.423	0.599	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
BLR 10-250 E6 BTU/HR	0.58	LB/E6 BTU	0.534								
EXIST. NEW	0.32	LB/E6 BTU	0.415	0.138	0.417	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
LIME PROCESSING	0.32		0.411								
EXPLOSIVES - HIGH	0.90	LB/TON	0.834	0.417	0.834	0.050S	0.050C	E6 TONS	26.1	13.1	16.4
EXPLOSIVES - LOW	0.83	LB/TON	169.000	11.500	169.000	0.045S	0.094C	E6 TONS	1.8	0.83	2.7
FERTILIZER - NITRATES	0.83	LB/TON	41.500	2.910	41.500	0.045S	0.094C	E6 TONS	0.52	0.23	0.76
DMT/TPA NITRIC ACID OXIDATION	0.77	LB/TON	0.125	0.000	0.125	0.045S	0.070C	E6 TONS	10.5	4.7	10.2
COFFEE ROASTING	0.85	LB/TON	13.000	1.300	13.000	0.045S	0.073C	E6 TONS	0.38	0.17	0.39
PATHOLOGICAL INCINERATOR	0.85	LB/TON	0.100	0.050	0.100	0.040S	0.000S	E6 TONS	1.5	0.62	0.0
MUNICIPAL INCINERATORS	0.34	LB/TON	25.000	0.000	25.000	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
INDUSTRIAL/COMMERCIAL INCINERATORS	0.56	LB/TON	3.000	1.100	3.000	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
AUTOBODY INCINERATORS	0.38	LB/TON	1.870	0.650	1.870	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
BOILERS 3-10 MM BTU/HR	0.90	LB/PRD UNT	0.100	0.020	0.100	0.039S	0.280S	E6 PU	0.29	0.11	0.82
SEC MAGNESIUM	0.25	LB/E6 BTU	0.194	0.175	0.194	0.037S	0.043C	E12 BTU	26491.	9802.	13868.
SEC ZINC - DISTILLATION	0.82	LB/TON	0.347	0.000	0.347	0.035S	0.016S	E6 TONS	0.017	0.0061	0.0028
SEC ZINC - SWEAT	0.82	LB/TON	0.072	0.000	0.072	0.035S	0.039C	E6 TONS	0.38	0.13	0.18
BRICK & RELATED CLAY PRODUCTS	0.82	LB/TON	0.072	0.000	0.072	0.035S	0.039C	E6 TONS	0.20	0.069	0.091
NEW	0.80	LB/TON	0.465	0.233	0.465	0.033S	0.027S	E6 TONS	35.7	11.8	9.6

NITROGEN OXIDES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N	UNCONT E U	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
GLASS - OPAL	0.80	LB/TON	2.040	0.000	5.290	0.033S	0.028C	E6 TONS	0.46	0.15	0.15
CERAMIC CLAY	0.80	LB/TON	0.465	0.233	0.465	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
GLASS - SODA LIME	0.80	LB/TON	2.040	0.000	5.290	0.033S	0.028S	E6 TONS	34.4	11.4	9.6
PET REF - PR6C GAS COMB	0.85	LB/E6 BTU	230.000	115.000	230.000	0.031S	0.042C	E12 BTU	0.23	0.070	0.12
MINERAL WOOL	0.82	LB/TON	0.160	0.080	0.160	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
CAKE OVENS - BY PRODUCT	0.93	LB/TON	0.054	0.000	0.054	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
STEEL FOUNDRIES	0.90	LB/TON	0.200	0.000	0.200	0.028S	0.073S	E6 TONS	29.3	8.2	21.4
PORTLAND CEMENT	0.90	LB/TON	2.600	1.690	2.600	0.025S	0.030C	E6 TONS	103.	25.8	35.4
SEC LEAD - REVERB FURN	0.68	LB/TON	0.938	0.000	5.320	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
SEC LEAD - BLAST FURN	0.68	LB/TON	0.157	0.000	0.157	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
INTERNAL COMBUSTION ENGS D/OF	0.58	LB/TON	179.000	123.000	179.000	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
GAS TURBINE ENGS ELECTRIC UTILITIES	0.22	LB/TON	72.700	10.900	72.700	0.020S	0.270S	E6 TONS	54.1	10.8	14.6
INTERNAL COMBUSTION ENGS SPK IGN	0.58	LB/TON	230.000	131.000	230.000	0.020S	0.087S	E6 TONS	28.7	5.7	25.0
GAS TURBINE ENGS GAS PIPELINE	0.85	LB/TON	60.500	9.080	60.500	0.020S	0.145S	E6 TONS	4.4	0.88	6.4
BOILERS < 3 MM BTU/HR	0.30	LB/E6 BTU	0.081	0.040	0.081	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
ADIPIC ACID	1.00	LB/TON	12.000	1.200	12.000	0.015C	0.055C	E6 TONS	0.84	0.13	0.59
MIXED FUEL BOILERS - OIL & REFUSE	0.58	LB/TON	15.000	13.800	34.500	0.000S	17.290S	E6 TONS	0.036	0.0	6.2
MIXED FUEL BOILERS - COAL & REFUSE	0.58	LB/TON	35.000	15.000	37.500	0.000S	17.290S	E6 TONS	0.16	0.0	27.0

NITROGEN OXIDES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS							TONS/YEAR T-T S N 1985	1 - E /E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985			
FIBERGLAS MANUF - TEXTILE									
FIBERGLASS MFG. W80L PRODUCTS	8.8	2.8	1.0	1.0	8.8	2.5	6200.	0.812	
NITRIC ACID	2.1	1.4	0.52	0.52	2.1	1.2	880.	0.566	
BLR >250 E6 BTU/HR	558.	112.	55.9	132.	80.3	72.2	8100.	0.333	
BLR 10-250 E6 BTU/HR	8311.	4728.	2364.	2433.	7604.	6564.	1040000.	0.199	
* LIME PROCESSING	1498.	1297.	649.	652.	1482.	929.	553000.	0.664	
EXPLOSIVES - HIGH	16.0	9.8	4.9	4.9	16.0	10.4	5500.	0.500	
EXPLOSIVES - LOW	316.	129.	70.9	70.9	316.	87.6	228000.	0.932	
* FERTILIZER - NITRATES	22.0	8.9	4.9	4.9	22.0	6.1	15800.	0.930	
DMT/TPA NITRIC ACID OXIDATION	0.99	0.51	0.28	0.28	0.99	0.28	710.	1.000	
* COFFEE ROASTING	4.2	2.1	1.2	1.2	4.2	1.5	2700.	0.900	
* PATHOLOGICAL INCINERATOR	0.066	0.066	0.040	0.040	0.066	0.053	10.0	0.500	
MUNICIPAL INCINERATORS	0.71	0.55	0.34	0.34	0.71	0.34	370.	1.000	
INDUSTRIAL/COMMERCIAL INCINERATORS	39.9	27.3	16.7	16.7	39.9	25.2	14600.	0.633	
AUTOBODY INCINERATORS	32.9	11.6	7.1	7.1	32.9	16.0	16800.	0.652	
BOILERS .3-10 MM BTU/HR	0.050	0.013	0.0080	0.0080	0.050	0.016	30.0	0.800	
* SEC MAGNESIUM	979.	642.	405.	405.	979.	922.	56200.	0.098	
* SEC ZINC - DISTILLATION	0.0029	0.0025	0.0016	0.0016	0.0029	0.0016	1.3	1.000	
* SEC ZINC - SWEAT	0.016	0.011	0.0073	0.0073	0.016	0.0073	9.2	1.000	
* BRICK & RELATED CLAY PRODUCTS	0.0085	0.0058	0.0038	0.0038	0.0085	0.0038	4.7	1.000	
8.4		6.6	4.4	4.4	8.4	6.4	1900.	0.499	

NITROGEN OXIDES

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985		
• GLASS - 6PAL	1.3	0.37	0.25	0.65	0.49	0.25	1.000
• CERAMIC CLAY	3.7	2.6	1.7	1.7	3.7	2.7	0.499
• GLASS - SODA LIME	93.3	28.1	18.8	48.8	36.0	18.8	1.000
PET_REF - PROC GAS COMB	33.4	22.1	15.2	15.2	33.4	24.3	0.500
• MINERAL WOOL	0.66	0.55	0.39	0.39	0.66	0.53	0.500
• COKE OVENS - BY PRODUCT	2.1	1.9	1.4	1.4	2.1	1.4	1.000
• STEEL FOUNDRIES	4.6	2.6	1.9	1.9	4.6	1.9	1.000
PORTLAND CEMENT	162.	121.	90.4	90.4	162.	137.	0.350
• SEC LEAD - REVERB FURN	1.8	0.23	0.17	0.98	0.31	0.17	1.000
• SEC LEAD - BLAST FURN	0.011	0.0079	0.0060	0.0060	0.011	0.0060	1.000
INTERNAL COMBUSTION ENGS D/OF	1193.	932.	746.	746.	1193.	1053.	0.313
GAS TURBINE ENGINES ELECTRIC UTILITIES	1601.	433.	346.	346.	1601.	534.	0.850
INTERNAL COMBUSTION ENGS SPK IGN	3585.	1917.	1534.	1534.	3585.	2702.	0.430
GAS TURBINE ENGINES GAS PIPELINE	277.	113.	90.3	90.3	277.	118.	0.850
• BOILERS <0.3 MM BTU/HR	397.	299.	239.	239.	397.	317.	0.506
ADIPIC ACID	3.6	5.0	4.2	4.2	8.6	4.7	0.900
MIXED FUEL BOILERS - OIL & REFUSE	62.6	0.16	0.16	0.36	27.2	25.1	0.080
MIXED FUEL BOILERS - COAL & REFUSE	295.	1.6	1.6	1.7	275.	119.	0.571

P_C (Compound)

NITROGEN OXIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT		GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			ALLOWABLE E	S	E	N	P	B	C	A	B	C
					U					1975	1985	1985
FIBERGLAS MANUF - TEXTILE												
0.70 LB/TON			15.300		15.300	2.870	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
INDUSTRIAL/COMMERCIAL INCINERATORS												
0.38 LB/TON			1.870		1.870	0.650	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
EXPLOSIVES - HIGH												
0.83 LB/TON			169.000		169.000	11.500	0.045S	0.094C	E6 TONS	1.8	0.83	2.7
EXPLOSIVES - LOW												
0.83 LB/TON			41.500		41.500	2.910	0.045S	0.094C	E6 TONS	0.52	0.23	0.76
NITRIC ACID												
0.88 LB/TON			22.300		22.300	2.000	0.050S	0.078C	E6 TONS	11.4	5.7	12.8
0.88 LB/TON			3.000									
0.85 LB/TON			13.000		13.000	1.300	0.045S	0.073C	E6 TONS	0.38	0.17	0.39
0.77 LB/TON			0.125		0.125	0.000	0.045S	0.070C	E6 TONS	10.5	4.7	10.2
0.58 LB/E6 BTU			0.582		0.599	0.428	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
0.58 LB/E6 BTU			0.534									
ADIPIC ACID												
1.00 LB/TON			12.000		12.000	1.200	0.015C	0.055C	E6 TONS	0.84	0.13	0.59
LINE PROCESSING												
0.90 LB/TON			0.834		0.834	0.417	0.050S	0.050C	E6 TONS	26.1	13.1	16.4
0.25 LB/E6 BTU			0.194		0.194	0.175	0.037S	0.043C	E12 BTU	26491.	9802.	13868.
0.85 LB/E6 BTU			230.000		230.000	115.000	0.031S	0.042C	E12 BTU	0.23	0.070	0.12
0.70 LB/TON			3.620		3.620	1.570	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
0.82 LB/TON			0.072		0.072	0.000	0.035S	0.039C	E6 TONS	0.38	0.13	0.18
0.82 LB/TON			0.072		0.072	0.000	0.035S	0.039C	E6 TONS	0.20	0.069	0.091
0.68 LB/TON			0.157		0.157	0.000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
0.68 LB/TON			0.938		5.320	0.000	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
0.90 LB/TON			2.600		2.600	1.690	0.025S	0.030C	E6 TONS	103.	25.8	35.4
0.30 LB/E6 BTU			0.081		0.081	0.040	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
0.80 LB/TON			2.040		5.290	0.000	0.033S	0.028C	E6 TONS	0.46	0.15	0.15

NITROGEN OXIDES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES			INDUSTRY		
			ALLOWABLE			DECIMAL/YR			CAPACITY/PRODUCTION		
			E S	E N	UNCENT E U	P B	P C	A 1975	B 1985	C 1985	
PATHOLOGICAL INCINERATOR											
0.34		LB/TON	25.000	0.000	25.000	0.039S	0.026C	0.13	0.051	0.038	
ELR 10-250 E6 BTU/HR											
EXIST.	0.32	LB/E6 BTU	0.415	0.138	0.417	0.050S	0.014C	19534.	9767.	2914.	
NEW.	0.32		0.411								

NITROGEN OXIDES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T F 1985	1000 TONS/YEAR T UE 1985	T S 1985		
FIBERGLAS MANUF - TEXTILE	8.8	2.8	1.0	1.0	8.8	6200.	0.812
INDUSTRIAL/COMMERCIAL INCINERATORS	32.9	11.6	7.1	7.1	32.9	16800.	0.652
EXPLOSIVES - HIGH	316.	129.	70.9	70.9	316.	228000.	0.932
EXPLOSIVES - LOW	22.0	8.9	4.9	4.9	22.0	15800.	0.930
NITRIC ACID	558.	112.	55.9	132.	80.3	8100.	0.333
DMT/TPA NITRIC ACID OXIDATION	4.2	2.1	1.2	1.2	4.2	2700.	0.900
* FERTILIZER - NITRATES	0.99	0.51	0.28	0.28	0.99	710.	1.000
BLR >250 EG BTU/HR	8311.	4729.	2364.	2433.	7604.	1040000.	0.199
ADIPIC ACID	8.6	5.0	4.2	4.2	8.6	3900.	0.900
* LIME PROCESSING	16.0	9.8	4.9	4.9	16.0	5500.	0.500
BOILERS .3-10 MM BTU/HR	979.	642.	405.	405.	979.	56200.	0.098
FET REF - PROG GAS COMB	33.4	22.1	15.2	15.2	33.4	9000.	0.500
FIBERGLASS MFG. WOOL PRODUCTS	2.1	1.4	0.52	0.52	2.1	880.	0.566
* SEC ZINC - DISTILLATION	0.016	0.011	0.0073	0.0073	0.016	9.2	1.000
* SEC ZINC - SWEAT	0.0085	0.0058	0.0038	0.0038	0.0085	4.7	1.000
* SEC LEAD - BLAST FURN	0.011	0.0079	0.0060	0.0060	0.011	4.8	1.000
* SEC LEAD - REVERB FURN	1.8	0.23	0.17	0.98	0.31	130.	1.000
PORTLAND CEMENT	162.	121.	90.4	90.4	162.	25000.	0.350
* BOILERS <.3 MM BTU/HR	397.	299.	239.	239.	397.	80200.	0.506
* GLASS - OPAL	1.3	0.37	0.25	0.65	0.49	240.	1.000

NITROGEN OXIDES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T-T S N 1985	1 - E /E N S
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985		
* PATHOLOGICAL INCINERATOR	0.71	0.55	0.34	0.34	0.71	370.	1.000
BLR 10-250 E6 BTU/HR	1498.	1297.	649.	652.	1482.	553000.	0.664

P_C (Simple)

NITROGEN OXIDES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION/ UNITS	EMISSION RATES			GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C 1985
			F	S	E	N	E	U	A	B	
							P	C	1975	1985	
MIXED FUEL BOILERS - COAL & REFUSE											
	0.58	LB/TON	35.000		15.000		0.000S	17.290S	0.16	0.0	27.0
MIXED FUEL BOILERS - OIL & REFUSE											
	0.58	LB/TON	15.000		13.800		0.000S	17.290S	0.036	0.0	6.2
AUTOBODY INCINERATORS											
	0.90	LB/PROD UNIT	0.100		0.020		0.039S	0.280S	0.29	0.11	0.82
GAS TURBINE ENGINES ELECTRIC UTILITIES											
	0.22	LB/TON	72.700		10.900		0.020S	0.270S	54.1	10.8	146.
GAS TURBINE ENGINES GAS PIPELINE											
	0.85	LB/TON	60.500		9.080		0.020S	0.145S	4.4	0.88	6.4
INTERNAL COMBUSTION ENGS 5% K IGN											
	0.58	LB/TON	230.000		131.000		0.020S	0.087S	28.7	5.7	25.0
STEEL FOUNDRIES											
	0.90	LB/TON	0.200		0.000		0.028S	0.073S	29.3	8.2	21.4
MUNICIPAL INCINERATORS											
	0.56	LB/TON	3.000		1.100		0.039S	0.046S	32.5	12.7	14.9
CERAMIC CLAY											
	0.80	LB/TON	0.465		0.233		0.033S	0.042S	13.9	4.6	5.8
GLASS - SODA LIME											
	0.80	LB/TON	2.040		0.000		0.033S	0.028S	34.4	11.4	9.6
INTERNAL COMBUSTION ENGS D/DF											
	0.58	LB/TON	179.000		123.000		0.020S	0.028S	18.0	3.6	5.0
BRICK & RELATED CLAY PRODUCTS											
	0.80	LB/TON	0.465		0.233		0.033S	0.027S	35.7	11.8	9.6
MINERAL WOOL											
	0.82	LB/TON	0.160		0.080		0.029S	0.020S	8.4	2.5	1.7
SEC MAGNESIUM											
	0.82	LB/TON	0.347		0.000		0.035S	0.016S	0.017	0.0061	0.0028
COKE OVENS - BY PRODUCT											
	0.93	LB/TON	0.054		0.000		0.028S	0.010S	75.5	21.1	7.5
COFFEE ROASTING											
	0.85	LB/TON	0.100		0.050		0.040S	0.000S	1.5	0.62	0.0

NITROGEN OXIDES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE

EMISSIONS

1000 TONS/YEAR

	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
MIXED FUEL BOILERS - COAL & REFUSE	295.	1.6	1.6	1.7	275.	119.	156000.	0.571
MIXED FUEL BOILERS - OIL & REFUSE	62.6	0.16	0.16	0.36	27.2	25.1	2100.	0.080
AUTOBODY INCINERATORS	0.050	0.013	0.0080	0.0080	0.050	0.016	30.0	0.800
GAS TURBINE ENGINES ELECTRIC UTILITIES	1601.	433.	346.	346.	1601.	534.	1060000.	0.850
GAS TURBINE ENGINES GAS PIPELINE	277.	113.	90.3	90.3	277.	118.	158000.	0.850
INTERNAL COMBUSTION ENGS SPK IGN	3585.	1917.	1534.	1534.	3585.	2702.	882000.	0.430
STEEL FOUNDRIES	4.6	2.6	1.9	1.9	4.6	1.9	2600.	1.000
MUNICIPAL INCINERATORS	39.9	27.3	16.7	16.7	39.9	25.2	14600.	0.633
CERAMIC CLAY	3.7	2.6	1.7	1.7	3.7	2.7	960.	0.499
GLASS - SODA LIME	93.3	28.1	18.8	48.8	36.0	18.8	17100.	1.000
INTERNAL COMBUSTION ENGS D/DF	1193.	932.	746.	746.	1193.	1053.	140000.	0.313
BRICK & RELATED CLAY PRODUCTS	8.4	6.6	4.4	4.4	8.4	6.4	1900.	0.499
MINERAL WOOL	0.66	0.55	0.39	0.39	0.66	0.53	130.	0.500
SEC MAGNESIUM	0.0029	0.0025	0.0016	0.0016	0.0029	0.0016	1.3	1.000
COKE OVENS - BY PRODUCT	2.1	1.9	1.4	1.4	2.1	1.4	720.	1.000
COFFEE ROASTING	0.066	0.066	0.040	0.040	0.066	0.053	10.0	0.500

K

NITROGEN OXIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES			CAPACITY/PRODUCTION			INDUSTRY
			ALLOWABLE E S	EMISSION E N	UNCERT E U	DECIMAL/YR P B	P C	UNITS/YR	1975	1985	1985	
ACIPIC ACID	1.00	LB/TON	12.000	1.200	12.000	0.015C	0.055C	E6 TONS	0.84	0.13	0.59	
COKE OVENS - BY PRODUCT	0.93	LB/TON	0.054	0.000	0.054	0.023S	0.010S	E6 TONS	75.5	21.1	7.5	
AUTOBODY INCINERATORS	0.90	LB/PRD UNIT	0.100	0.020	0.100	0.039S	0.280S	E6 PU	0.29	0.11	0.82	
LIME PROCESSING	0.90	LB/TON	0.834	0.417	0.834	0.050S	0.050C	E6 TONS	26.1	13.1	16.4	
STEEL FOUNDRIES	0.90	LB/TON	0.200	0.000	0.200	0.028S	0.073S	E6 TONS	29.3	8.2	21.4	
PORTLAND CEMENT	0.90	LB/TON	2.600	1.690	2.600	0.025S	0.030C	E6 TONS	103.	25.8	35.4	
NITRIC ACID EXIST- NEW	0.88 0.88	LB/TON	22.300 3.000	2.000	52.500	0.050S	0.078C	E6 TONS	11.4	5.7	12.8	
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	60.500	9.080	60.500	0.020S	0.145S	E6 TONS	4.4	0.88	6.4	
PET REF - PROC GAS COMB	0.85	LB/E6 BTU	230.000	115.000	230.000	0.031S	0.042C	E12 BTU	0.23	0.070	0.12	
COFFEE ROASTING	0.85	LB/TON	0.100	0.050	0.100	0.040S	0.000S	E6 TONS	1.5	0.62	0.0	
DHT/TPA NITRIC ACID OXIDATION	0.85	LB/TON	13.000	1.300	13.000	0.045S	0.073C	E6 TONS	0.38	0.17	0.39	
EXPLOSIVES - LOW	0.83	LB/TON	41.500	2.910	41.500	0.045S	0.094C	E6 TONS	0.52	0.23	0.76	
EXPLOSIVES - HIGH	0.83	LB/TON	169.000	11.500	169.000	0.045S	0.094C	E6 TONS	1.8	0.83	2.7	
SEC ZINC - DISTILLATION	0.82	LB/TON	0.072	0.000	0.072	0.035S	0.039C	E6 TONS	0.38	0.13	0.18	
SEC ZINC - SWEAT	0.82	LB/TON	0.072	0.000	0.072	0.035S	0.039C	E6 TONS	0.20	0.069	0.091	
SEC MAGNESIUM	0.82	LB/TON	0.347	0.000	0.347	0.035S	0.016S	E6 TONS	0.017	0.0061	0.0028	
MINERAL WOOL	0.82	LB/TON	0.160	0.080	0.160	0.029S	0.020S	E6 TONS	8.4	2.5	1.7	
GLASS - SODA LIME	0.80	LB/TON	2.040	0.000	5.290	0.033S	0.028S	E6 TONS	34.4	11.4	9.6	
GLASS - OPAL	0.80	LB/TON	2.040	0.000	5.290	0.033S	0.028C	E6 TONS	0.46	0.15	0.15	
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.465	0.233	0.465	0.033S	0.027S	E6 TONS	35.7	11.8	9.6	
CERAMIC CLAY	0.80	LB/TON	0.465	0.233	0.465	0.033S	0.042S	E6 TONS	13.9	4.6	5.8	

NITROGEN OXIDES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION			INDUSTRY C 1985
			ALLOWABLE E S	EMISSION E N	UNCONT E U	P B	P C	UNITS/YR	A 1975	B 1985		
FERTILIZER - NITRATES 0.77		LB/TON	0.125	0.000	0.125	0.045S	0.070C	E6 TONS	10.5	4.7	10.2	
FIBERGLASS MFG. W99L PRODUCTS 0.70		LB/TON	3.620	1.570	3.620	0.063S	0.042C	E6 TONS	1.1	0.68	0.55	
FIBERGLAS MANUF - TEXTILE 0.70		LB/TON	15.300	2.870	15.300	0.063S	0.122C	E6 TONS	0.52	0.32	1.1	
SEC LEAD - BL/ST FURN 0.68		LB/TON	0.157	0.000	0.157	0.024S	0.032C	E6 TONS	0.15	0.036	0.055	
SEC LEAD - REVERB FURN 0.68		LB/TON	0.938	0.000	5.320	0.024S	0.032C	E6 TONS	0.71	0.17	0.26	
INTERNAL COMBUSTION ENGS SPX IGN 0.58		LB/TON	230.000	131.000	230.000	0.020S	0.087S	E6 TONS	28.7	5.7	25.0	
MIXED FUEL BOILERS - OIL & REFUSE 0.58		LB/TON	15.000	13.800	34.500	0.000S	17.290S	E6 TONS	0.036	0.0	6.2	
MIXED FUEL BOILERS - COAL & REFUSE 0.58		LB/TON	35.000	15.000	37.500	0.000S	17.290S	E6 TONS	0.16	0.0	27.0	
INTERNAL COMBUSTION ENGS D/DF 0.58		LB/TON	179.000	123.000	179.000	0.020S	0.028S	E6 TONS	18.0	3.6	5.0	
ELR >250 E6 BTU/HR EXIST. NEW. 0.58		LB/E6 BTU	0.582 0.534	0.428	0.599	0.050S	0.055C	E12 BTU	28011.	14006.	19836.	
MUNICIPAL INCINERATORS 0.56		LB/TON	3.000	1.100	3.000	0.039S	0.046S	E6 TONS	32.5	12.7	14.9	
INDUSTRIAL/COMMERCIAL INCINERATORS 0.38		LB/TON	1.870	0.650	1.870	0.039S	0.110C	E6 TONS	32.4	12.7	60.0	
PATHOLOGICAL INCINERATOR 0.34		LB/TON	25.000	0.000	25.000	0.039S	0.026C	E6 TONS	0.13	0.051	0.038	
ELR 10-250 E6 BTU/HR EXIST. NEW. 0.32		LB/E6 BTU	0.415 0.411	0.138	0.417	0.050S	0.014C	E12 BTU	19534.	9767.	2914.	
BOILERS <.3 MM BTU/HR 0.30		LB/E6 BTU	0.081	0.040	0.081	0.020S	0.029C	E12 BTU	24572.	4914.	8131.	
BOILERS .3-10 MM BTU/HR 0.25		LB/E6 BTU	0.194	0.175	0.194	0.037S	0.043C	E12 BTU	26491.	9802.	13868.	
GAS TURBINE ENGINES ELECTRIC UTILITIES 0.22		LB/TON	72.700	10.900	72.700	0.020S	0.270S	E6 TONS	54.1	10.8	146.	

NITROGEN OXIDES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985		
ADIPIC ACID							
• COKE OVENS - BY PRODUCT	3.6	5.0	4.2	4.2	8.6	3900.	0.900
AUTOBODY INCINERATORS	2.1	1.9	1.4	1.4	2.1	720.	1.000
• LIME PROCESSING	0.050	0.013	0.0080	0.0080	0.050	30.0	0.800
• STEEL FOUNDRIES	16.0	9.8	4.9	4.9	16.0	5500.	0.500
PORTLAND CEMENT	4.6	2.6	1.9	1.9	4.6	2600.	1.000
NITRIC ACID	162.	121.	90.4	90.4	162.	25000.	0.350
GAS TURBINE ENGINES GAS PIPELINE	558.	112.	55.9	132.	80.3	8100.	0.333
PET REF - PROB GAS COMB	277.	113.	90.3	90.3	277.	158000.	0.850
• COFFEE ROASTING	33.4	22.1	15.2	15.2	33.4	9000.	0.500
DMT/TPA NITRIC ACID OXIDATION	0.066	0.066	0.040	0.040	0.066	10.0	0.500
EXPLOSIVES - LOW	4.2	2.1	1.2	1.2	4.2	2700.	0.900
EXPLOSIVES - HIGH	22.0	8.9	4.9	4.9	22.0	15800.	0.930
• SEC ZINC - DISTILLATION	316.	129.	70.9	70.9	316.	228000.	0.932
• SEC ZINC - SWEAT	0.016	0.011	0.0073	0.0073	0.016	9.2	1.000
• SEC MAGNESIUM	0.0015	0.0058	0.0038	0.0038	0.0085	4.7	1.000
• MINERAL WOOL	0.0029	0.0025	0.0016	0.0016	0.0029	1.3	1.000
• GLASS - SODA LIME	0.66	0.55	0.39	0.39	0.66	130.	0.500
• GLASS - OPAL	93.3	28.1	18.8	48.8	36.0	17100.	1.000
• BRICK & RELATED CLAY PRODUCTS	1.3	0.37	0.25	0.65	0.49	240.	1.000
	8.4	6.6	4.4	4.4	8.4	1900.	0.499

NITROGEN OXIDES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR		1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985	T - T S N 1985	
• CERAMIC CLAY								
• FERTILIZER - NITRATES	3.7	2.6	1.7	1.7	3.7	2.7	960.	0.499
FIBERGLASS MFG. WOOL PRODUCTS	0.99	0.51	0.28	0.28	0.99	0.28	710.	1.000
FIBERGLAS MANUF - TEXTILE	2.1	1.4	0.52	0.52	2.1	1.2	880.	0.566
• SEC LEAD - BLAST FURN	8.8	2.8	1.0	1.0	8.8	2.5	6200.	0.812
• SEC LEAD - REVERB FURN	0.011	0.0079	0.0060	0.0060	0.011	0.0060	4.8	1.000
INTERNAL COMBUSTION ENGS SPK IGN	1.8	0.23	0.17	0.98	0.31	0.17	130.	1.000
MIXED FUEL BOILERS - OIL & REFUSE	3585.	1917.	1534.	1534.	3585.	2702.	882000.	0.430
MIXED FUEL BOILERS - COAL & REFUSE	62.6	0.16	0.16	0.36	27.2	25.1	2100.	0.080
INTERNAL COMBUSTION ENGS D/DF	295.	1.6	1.6	1.7	275.	119.	156000.	0.571
BLR >250 E6 BTU/HR	1193.	932.	746.	746.	1193.	1053.	140000.	0.313
MUNICIPAL INCINERATORS	8311.	4728.	2364.	2433.	7604.	6564.	1040000.	0.199
INDUSTRIAL/COMMERCIAL INCINERATORS	39.9	27.3	16.7	16.7	39.9	25.2	14600.	0.633
• PATHOLOGICAL INCINERATOR	32.9	11.6	7.1	7.1	32.9	16.0	16800.	0.652
BLR 10-250 E6 BTU/HR	0.71	0.55	0.34	0.34	0.71	0.34	370.	1.000
• BOILERS <0.3 MM BTU/HR	1498.	1297.	649.	652.	1482.	929.	553000.	0.664
BOILERS .3-10 MM BTU/HR	397.	299.	239.	239.	397.	317.	80200.	0.506
GAS TURBINE ENGINES ELECTRIC UTILITIES	979.	642.	405.	405.	979.	922.	56200.	0.098
	1601.	433.	346.	346.	1601.	534.	1060000.	0.850

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NITROGEN OXIDES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES		UNITS/YR	CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E _S	EMISSION E _N	UNCONT E _U	DECIMAL/YR P _B	P _C	A 1975	B 1985	
BLR >250 E6 BTU/HR EXIST. NEW.	0.58 0.58	LB/E6 BTU	0.582 0.534	0.428	0.599	0.050S	0.055C	28011.	14006.	19836.
INTERNAL COMBUSTION ENGS SPK IGN 0.58 LB/TON	0.58	LB/TON	230.000	131.000	230.000	0.020S	0.087S	28.7	5.7	25.0
GAS TURBINE ENGINES ELECTRIC UTILITIES 0.22 LB/TON	0.22	LB/TON	72.700	10.900	72.700	0.020S	0.270S	54.1	10.8	146.
BLR 10-250 E6 BTU/HR EXIST. NEW.	0.32 0.32	LB/E6 BTU	0.415 0.411	0.138	0.417	0.050S	0.014C	19534.	9767.	2914.
INTERNAL COMBUSTION ENGS D/OF 0.58 LB/TON	0.58	LB/TON	179.000	123.000	179.000	0.020S	0.028S	18.0	3.6	5.0
BOILERS >3-10 MM BTU/HR 0.25 LB/E6 BTU	0.25	LB/E6 BTU	0.194	0.175	0.194	0.037S	0.043C	26491.	9802.	13868.
NITRIC ACID EXIST. NEW.	0.88 0.88	LB/TON	22.300 3.000	2.000	52.500	0.050S	0.078C	11.4	5.7	12.8
BOILERS <3 MM BTU/HR 0.30 LB/E6 BTU	0.30	LB/E6 BTU	0.081	0.040	0.081	0.020S	0.029C	24572.	4914.	8131.
EXPLOSIVES - HIGH 0.83 LB/TON	0.83	LB/TON	169.000	11.500	169.000	0.045S	0.094C	1.8	0.83	2.7
FIXED FUEL BOILERS - COAL & REFUSE 0.56 LB/TON	0.56	LB/TON	35.000	15.000	37.500	0.000S	17.290S	0.16	0.0	27.0
GAS TURBINE ENGINES GAS PIPELINE 0.85 LB/TON	0.85	LB/TON	60.500	9.080	60.500	0.020S	0.145S	4.4	0.88	6.4
PORTLAND CEMENT 0.90 LB/TON	0.90	LB/TON	2.600	1.690	2.600	0.025S	0.030C	103.	25.8	35.4
GLASS - SODA LIME 0.80 LB/TON	0.80	LB/TON	2.040	0.000	5.290	0.033S	0.028S	34.4	11.4	9.6
FIXED FUEL BOILERS - OIL & REFUSE 0.58 LB/TON	0.58	LB/TON	15.000	13.800	34.500	0.000S	17.290S	0.036	0.0	6.2
MUNICIPAL INCINERATORS 0.56 LB/TON	0.56	LB/TON	3.000	1.100	3.000	0.039S	0.046S	32.5	12.7	14.9
FET REF - PROC GAS COKE 0.85 LB/E6 BTU	0.85	LB/E6 BTU	230.000	115.000	230.000	0.031S	0.042C	0.23	0.070	0.12
INDUSTRIAL/COMMERCIAL INCINERATORS 0.38 LB/TON	0.38	LB/TON	1.870	0.650	1.870	0.039S	0.110C	32.6	12.7	60.0
EXPLOSIVES - LOW 0.83 LB/TON	0.83	LB/TON	41.500	2.910	41.500	0.045S	0.094C	0.52	0.23	0.76
LIME PROCESSING 0.90 LB/TON	0.90	LB/TON	0.834	0.417	0.834	0.050S	0.050C	26.1	13.1	16.4
FIBERGLAS MANUF - TEXTILE 0.70 LB/TON	0.70	LB/TON	15.300	2.870	15.300	0.063S	0.122C	0.52	0.32	1.1

NITROGEN OXIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES			CAPACITY/PRODUCTION		C
			ALLOWABLE E S	UNCONT E U	P B	P C	UNITS/YR	A 1975	B 1985	1985
ADIPIC ACID	1.00	LB/TON	12.000	1.200	0.015C	0.055C	E6 TONS	0.84	0.13	0.59
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.465	0.233	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
STEEL FOUNDRIES	0.90	LB/TON	0.200	0.000	0.028S	0.073S	E6 TONS	29.3	8.2	21.4
CHT/TPA NITRIC ACID OXIDATION	0.85	LB/TON	13.000	1.300	0.045S	0.073C	E6 TONS	0.38	0.17	0.39
CERAMIC CLAY	0.80	LB/TON	0.465	0.233	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
COKE OVENS - BY PRODUCT	0.93	LB/TON	0.054	0.000	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
FIBERGLASS MFG. W86L PRODUCTS	0.70	LB/TON	3.620	1.570	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
SEC LEAD - REVERB FURN	0.68	LB/TON	0.934	0.000	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
GLASS - OPAL	0.80	LB/TON	2.040	0.000	0.033S	0.028C	E6 TONS	0.46	0.15	0.15
FERTILIZER - NITRATES	0.77	LB/TON	0.125	0.000	0.045S	0.070C	E6 TONS	10.5	4.7	10.2
PATHOLOGICAL INCINERATOR	0.34	LB/TON	25.000	0.000	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
MINERAL W86L	0.82	LB/TON	0.160	0.080	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
COFFEE ROASTING	0.85	LB/TON	0.100	0.050	0.040S	0.000S	E6 TONS	1.5	0.62	0.0
AUTOBODY INCINERATORS	0.90	LB/PRD UNIT	0.100	0.020	0.039S	0.280S	E6 PU	0.29	0.11	0.82
SEC ZINC - DISTILLATION	0.82	LB/TON	0.072	0.000	0.035S	0.039C	E6 TONS	0.38	0.13	0.18
SEC LEAD - BLAST FURN	0.68	LB/TON	0.157	0.000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
SEC ZINC - SWEAT	0.82	LB/TON	0.072	0.000	0.035S	0.039C	E6 TONS	0.20	0.069	0.091
SEC MAGNESIUM	0.82	LB/TON	0.347	0.000	0.035S	0.016S	E6 TONS	0.017	0.0061	0.0028

NITROGEN OXIDES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985		
BLR >250 E6 BTU/HR	8311.	4728.	2364.	2433.	7604.	1040000.	0.199
INTERNAL COMBUSTION ENGS SPK IGN	3585.	1917.	1534.	1534.	3585.	882000.	0.430
GAS TURBINE ENGINES ELECTRIC UTILITIES	1601.	433.	346.	346.	1601.	1060000.	0.850
BLR 10-250 E6 BTU/HR	1498.	1297.	649.	652.	1482.	553000.	0.664
INTERNAL COMBUSTION ENGS D/DF	1193.	932.	746.	746.	1193.	140000.	0.313
BOILERS .3-10 MM BTU/HR	979.	642.	405.	405.	979.	56200.	0.098
NITRIC ACID	558.	112.	55.9	132.	80.3	8100.	0.333
* BOILERS <.3 MM BTU/HR	397.	299.	239.	239.	397.	80200.	0.506
EXPLOSIVES - HIGH	316.	129.	70.9	70.9	316.	228000.	0.332
MIXED FUEL BOILERS - COAL & REFUSE	295.	1.6	1.6	1.7	275.	156000.	0.571
GAS TURBINE ENGINES GAS PIPELINE	277.	113.	90.3	90.3	277.	158000.	0.850
PORTLAND CEMENT	162.	121.	90.4	90.4	162.	25000.	0.350
* GLASS - SODA LIME	93.3	28.1	18.8	48.8	36.0	17100.	1.000
MIXED FUEL BOILERS - OIL & REFUSE	62.6	0.16	0.16	0.36	27.2	2100.	0.080
MUNICIPAL INCINERATORS	39.5	27.3	16.7	16.7	39.9	14600.	0.633
PET REF - PRBC GAS COMB	33.4	22.1	15.2	15.2	33.4	9000.	0.500
INDUSTRIAL/COMMERCIAL INCINERATORS	32.9	11.6	7.1	7.1	32.9	16800.	0.652
EXPLOSIVES - LOW	22.0	8.9	4.9	4.9	22.0	15800.	0.930
* LIME PROCESSING	16.0	9.8	4.9	4.9	16.0	5500.	0.500
FIBERGLAS MANUF - TEXTILE	8.8	2.8	1.0	1.0	8.8	6200.	0.812

NITROGEN OXIDES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T J 1985	T A 1975	EMISSIONS 1000 TONS/YEAR				T S N 1985	T S N 1985	1 - E / E N S
			T E 1985	T UE 1985	T S 1985	T N 1985			
ADIPIC ACID									
• BRICK & RELATED CLAY PRODUCTS	8.6	5.0	4.2	4.2	8.6	4.7	3900.	0.900	
• STEEL FOUNDRIES	8.4	6.6	4.4	4.4	8.4	6.4	1900.	0.499	
DMT/TPA NITRIC ACID OXIDATION	4.6	2.6	1.9	1.9	4.6	1.9	2600.	1.000	
• CERAMIC CLAY	4.2	2.1	1.2	1.2	4.2	1.5	2700.	0.900	
• COKE OVENS - BY PRODUCT	3.7	2.6	1.7	1.7	3.7	2.7	960.	0.499	
FIBERGLASS MFG. WOOL PRODUCTS	2.1	1.9	1.4	1.4	2.1	1.4	720.	1.000	
• SEC LEAD - REVERB FURN	2.1	1.4	0.52	0.52	2.1	1.2	880.	0.566	
• GLASS - BPAL	1.8	0.23	0.17	0.93	0.31	0.17	130.	1.000	
• FERTILIZER - NITRATES	1.3	0.37	0.25	0.65	0.49	0.25	240.	1.000	
• PATHOLOGICAL INCINERATOR	0.99	0.51	0.28	0.28	0.99	0.28	710.	1.000	
• MINERAL WOOL	0.71	0.55	0.34	0.34	0.71	0.34	370.	1.000	
• COFFEE ROASTING	0.66	0.55	0.39	0.39	0.66	0.53	130.	0.500	
AUTOBODY INCINERATORS	0.066	0.066	0.040	0.040	0.066	0.053	10.0	0.500	
• SEC ZINC - DISTILLATION	0.050	0.013	0.0080	0.0080	0.050	0.016	30.0	0.800	
• SEC LEAD - BLAST FURN	0.016	0.011	0.0073	0.0073	0.016	0.0073	9.2	1.000	
• SEC ZINC - SWEAT	0.011	0.0079	0.0060	0.0060	0.011	0.0060	4.8	1.000	
• SEC MAGNESIUM	0.0085	0.0058	0.0038	0.0038	0.0085	0.0038	4.7	1.000	
	0.0029	0.0025	0.0016	0.0016	0.0029	0.0016	1.3	1.000	

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NITROGEN OXIDES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES			CAPACITY/PRODUCTION			C
			ALLOWABLE E S	E N	UNCENT E U	DECIMAL/YR P B	P C	UNITS/YR	A 1975	B 1985	C 1985	
BLR >250 E6 BTU/HR EXIST. NEW.	0.58 0.58 0.58	LB/E6 BTU ENGS SPK IGN LB/TON	0.582 0.534 230.000	0.428	0.599	0.050S	0.055C	E12 BTU	28011.	14006.	19836.	
INTERNAL COMBUSTION ENGS BLR 10-250 E6 BTU/HR EXIST. NEW.	0.58 0.32 0.32	LB/TON LB/E6 BTU ENGS D/DF	230.000 0.415 0.411	131.000 0.138	230.000 0.417	0.020S 0.050S	0.087S 0.014C	E6 TONS E12 BTU	28.7 19534.	5.7 9767.	25.0 2914.	
INTERNAL COMBUSTION ENGS BOILERS 3-10 MM BTU/HR	0.58 0.25	LB/TON LB/E6 BTU	179.000 0.194	123.000 0.175	179.000 0.194	0.020S 0.037S	0.028S 0.043C	E6 TONS E12 BTU	18.0 26491.	3.6 9802.	5.0 13868.	
GAS TURBINE ENGINES ENGINES ELECTRIC UTILITIES	0.22 0.30	LB/TON LB/E6 BTU	72.700 0.081	10.900 0.040	72.700 0.081	0.020S 0.020S	0.270S 0.029C	E6 TONS E12 BTU	54.1 24572.	10.8 4914.	146. 8131.	
EXPLOSIVES - HIGH PORTLAND CEMENT	0.83 0.90	LB/TON LB/TON	169.000 2.600	11.500 1.690	169.000 2.600	0.045S 0.025S	0.094C 0.030C	E6 TONS E6 TONS	1.8 103.	0.83 25.8	2.7 35.4	
GAS TURBINE ENGINES GAS PIPELINE	0.35 0.88	LB/TON LB/TON	60.500 22.300	9.080 2.000	60.500 52.500	0.020S 0.050S	0.145S 0.078C	E6 TONS E6 TONS	4.4 11.4	0.88 5.7	6.4 12.8	
NITRIC ACID EXIST. NEW.	0.88 0.88	LB/TON LB/TON	22.300 3.000	2.000	52.500	0.050S	0.078C	E6 TONS	11.4	5.7	12.8	
GLASS - SODA LIME MUNICIPAL INCINERATORS	0.80 0.56	LB/TON LB/TON	2.040 3.000	0.000 1.100	5.290 3.000	0.033S 0.039S	0.028S 0.046S	E6 TONS E6 TONS	34.4 32.5	11.4 12.7	9.6 14.9	
PET REF - PROC GAS COMB INDUSTRIAL/COMMERCIAL INCINERATORS	0.85 0.38	LB/E6 BTU LB/TON	230.000 1.870	115.000 0.650	230.000 1.870	0.031S 0.039S	0.042C 0.110C	E12 BTU E6 TONS	0.23 32.6	0.070 12.7	0.12 60.0	
LIPE PROCESSING EXPLOSIVES - LOW	0.90 0.83	LB/TON LB/TON	0.834 41.500	0.417 2.910	0.834 41.500	0.050S 0.045S	0.050C 0.094C	E6 TONS E6 TONS	26.1 0.52	13.1 0.23	16.4 0.76	
BRICK & RELATED CLAY PRODUCTS	0.80 1.00	LB/TON LB/TON	0.465 12.000	0.233 1.200	0.465 12.000	0.033S 0.015C	0.027S 0.055C	E6 TONS E6 TONS	35.7 0.84	11.8 0.13	9.6 0.59	
ACIPIC ACID FIBERGLAS MANUF - TEXTILE	0.80 0.70	LB/TON LB/TON	0.465 15.300	0.233 2.870	0.465 15.300	0.033S 0.063S	0.027S 0.122C	E6 TONS E6 TONS	35.7 0.52	11.8 0.32	9.6 1.1	

NITROGEN OXIDES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E	N	UNCONT E	P	B	A 1975	B 1985	
STEEL FOUNDRIES	0.90	LB/TON	0.200	0.000	0.200	0.0285	0.0735	29.3	8.2	21.4
CERAMIC CLAY	0.80	LB/TON	0.465	0.233	0.465	0.0335	0.0425	13.9	4.6	5.8
CHT/TPA NITRIC ACID OXIDATION	0.85	LB/TON	13.000	1.300	13.000	0.0455	0.0730	0.38	0.17	0.39
COKE OVENS - BY PRODUCT	0.93	LB/TON	0.054	0.000	0.054	0.0285	0.0105	75.5	21.1	7.5
MIXED FUEL BOILERS - COAL & REFUSE	0.58	LB/TON	35.000	15.000	37.500	0.0005	17.2905	0.16	0.0	27.0
FIBERGLASS MFG. WBL PRODUCTS	0.70	LB/TON	3.620	1.570	3.620	0.0635	0.0420	1.1	0.68	0.55
MINERAL WOOL	0.82	LB/TON	0.160	0.080	0.160	0.0295	0.0205	8.4	2.5	1.7
PATHOLOGICAL INCINERATOR	0.34	LB/TON	25.000	0.000	25.000	0.0395	0.0260	0.13	0.051	0.038
FERTILIZER - NITRATES	0.77	LB/TON	0.125	0.000	0.125	0.0455	0.0700	10.5	4.7	10.2
GLASS - BPAL	0.80	LB/TON	2.040	0.000	5.290	0.0335	0.0280	0.46	0.15	0.15
SEC LEAD - REVERB FURN	0.68	LB/TON	0.938	0.000	5.320	0.0245	0.0320	0.71	0.17	0.26
MIXED FUEL BOILERS - OIL & REFUSE	0.58	LB/TON	15.000	13.800	34.500	0.0005	17.2905	0.036	0.0	6.2
COFFEE ROASTING	0.85	LB/TON	0.100	0.050	0.100	0.0405	0.0005	1.5	0.62	0.0
AUTOBODY INCINERATORS	0.90	LB/PRD UNIT	0.100	0.020	0.100	0.0395	0.2805	0.29	0.11	0.82
SEC ZINC - DISTILLATION	0.82	LB/TON	0.072	0.000	0.072	0.0355	0.0390	0.38	0.13	0.18
SEC LEAD - BLAST FURN	0.68	LB/TON	0.157	0.000	0.157	0.0245	0.0320	0.15	0.036	0.055
SEC ZINC - SWEAT	0.82	LB/TON	0.072	0.000	0.072	0.0355	0.0390	0.20	0.063	0.091
SEC MAGNESIUM	0.82	LB/TON	0.347	0.000	0.347	0.0355	0.0165	0.017	0.0061	0.0028

NITROGEN OXIDES

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T U 1985	T S 1985	T N 1985	
BLR >250 E6 BTU/HR	831.	472.	236.	243.	760.	656.	0.199
INTERNAL COMBUSTION ENGS SPK IGN	355.	191.	153.	153.	358.	270.	0.430
BLR 10-250 E6 BTU/HR	149.	129.	64.	65.	148.	92.	0.664
INTERNAL COMBUSTION ENGS D/DF	119.	93.	74.	74.	119.	105.	0.313
BOILERS 3-10 MM BTU/HR	97.	64.	40.	40.	97.	92.	0.098
GAS TURBINE ENGINES ELECTRIC UTILITIES	160.	43.	34.	34.	160.	53.	0.850
BOILERS <3 MM BTU/HR	39.	29.	23.	23.	39.	31.	0.506
EXPLOSIVES - HIGH	31.	12.	70.	70.	31.	87.	0.932
PORTLAND CEMENT	162.	121.	90.	90.	162.	137.	0.350
GAS TURBINE ENGINES GAS PIPELINE	277.	113.	90.	90.	277.	118.	0.850
NITRIC ACID	558.	112.	55.	132.	80.	72.	0.333
GLASS - SODA LIME	93.	28.	18.	48.	36.	18.	1.000
MUNICIPAL INCINERATORS	39.	27.	16.	16.	39.	25.	0.633
PET REF - PRC GAS COMB	33.	22.	15.	15.	33.	24.	0.500
INDUSTRIAL/COMMERCIAL INCINERATORS	32.	11.	7.	7.	32.	16.	0.652
LIME PROCESSING	16.	9.	4.	4.	16.	10.	0.500
EXPLOSIVES - LOW	22.	8.	4.	4.	22.	6.	0.930
BRICK & RELATED CLAY PRODUCTS	8.	6.	4.	4.	8.	6.	0.499
ADIPIC ACID	8.	5.	4.	4.	8.	4.	0.900
FIBERGLAS MANUF - TEXTILE	8.	2.	1.	1.	8.	2.	0.812

NITROGEN OXIDES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE

SOURCE	T U 1985	T A 1975	EMISSIONS			T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985			
* STEEL FOUNDRIES	4.6	2.6	1.9	1.9	4.6	1.9	2600.	1.000
* CERAMIC CLAY	3.7	2.6	1.7	1.7	3.7	2.7	960.	0.499
DHT/TPA NITRIC ACID OXIDATION	4.2	2.1	1.2	1.2	4.2	1.5	2700.	0.900
* COKE OVENS - BY PRODUCT	2.1	1.9	1.4	1.4	2.1	1.4	720.	1.000
MIXED FUEL BOILERS - COAL & REFUSE	295.	1.6	1.6	1.7	275.	119.	156000.	0.571
FIBERGLASS MFG. W88L PRODUCTS	2.1	1.4	0.52	0.52	2.1	1.2	880.	0.566
* MINERAL W88L	0.66	0.55	0.39	0.39	0.66	0.53	130.	0.500
* PATHOLOGICAL INCINERATOR	0.71	0.55	0.34	0.34	0.71	0.34	373.	1.000
* FERTILIZER - NITRATES	0.99	0.51	0.28	0.28	0.99	0.28	710.	1.000
* GLASS - 8PAL	1.3	0.37	0.25	0.65	0.49	0.25	240.	1.000
* SEC LEAD - REVERB FURN	1.8	0.23	0.17	0.98	0.31	0.17	130.	1.000
MIXED FUEL BOILERS - OIL & REFUSE	62.6	0.16	0.16	0.36	27.2	25.1	2100.	0.080
* COFFEE ROASTING	0.066	0.066	0.040	0.040	0.066	0.053	10.0	0.500
AUT880DY INCINERATORS	0.050	0.013	0.0080	0.0080	0.050	0.016	30.0	0.800
* SEC ZINC - DISTILLATION	0.016	0.011	0.0073	0.0073	0.016	0.0073	9.2	1.000
* SEC LEAD - BLAST FURN	0.011	0.0079	0.0060	0.0060	0.011	0.0060	4.8	1.000
* SEC ZINC - SWEAT	0.0085	0.0058	0.0038	0.0038	0.0085	0.0038	4.7	1.000
* SEC MAGNESIUM	0.0029	0.0025	0.0016	0.0016	0.0029	0.0016	1.3	1.000

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NITROGEN OXIDES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			ALLOWABLE E	EMISSION E		S	N	U	P	B	C
BLR 250 E6 BTU/HR EXIST. NEW.	0.58 0.58	LB/E6 BTU	0.582 0.534	0.428	0.599	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
INTERNAL COMBUSTION ENGS SPK IGN	0.58	LB/TON	230.000	131.000	230.000	0.020S	0.087S	E6 TONS	28.7	5.7	25.0
INTERNAL COMBUSTION ENGS D/DF	0.58	LB/TON	179.000	123.000	179.000	0.020S	0.026S	E6 TONS	18.0	3.6	5.0
BLR 10-250 E6 BTU/HR EXIST. NEW.	0.32 0.32	LB/E6 BTU	0.415 0.411	0.138	0.417	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
BOILERS 3-10 MM BTU/HR	0.25	LB/E6 BTU	0.194	0.175	0.194	0.037S	0.043C	E12 BTU	26491.	9802.	13868.
GAS TURBINE ENGINES ELECTRIC UTILITIES	0.22	LB/TON	72.700	10.900	72.700	0.020S	0.270S	E6 TONS	54.1	10.8	146.
BOILERS <3 MM BTU/HR	0.30	LB/E6 BTU	0.041	0.040	0.081	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
PORTLAND CEMENT	0.90	LB/TON	2.600	1.690	2.600	0.025S	0.030C	E6 TONS	103.	25.8	35.4
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	60.500	9.080	60.500	0.020S	0.145S	E6 TONS	4.4	0.88	6.4
EXPLOSIVES - HIGH	0.83	LB/TON	169.000	11.500	169.000	0.045S	0.094C	E6 TONS	1.8	0.83	2.7
NITRIC ACID EXIST. NEW.	0.88 0.88	LB/TON	22.300 3.000	2.000	52.500	0.050S	0.078C	E6 TONS	11.4	5.7	12.8
GLASS - SODA LIME	0.80	LB/TON	2.040	0.000	5.290	0.033S	0.028S	E6 TONS	34.4	11.4	9.6
MUNICIPAL INCINERATORS	0.56	LB/TON	3.000	1.100	3.000	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
PET REF - 140C GAS COMB	0.85	LB/E6 BTU	230.000	115.000	230.000	0.031S	0.042C	E12 BTU	0.23	0.070	0.12
INDUSTRIAL/COMMERCIAL INCINERATORS	0.38	LB/TON	1.870	0.650	1.870	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
EXPLOSIVES - LOW	0.83	LB/TON	41.500	2.910	41.500	0.045S	0.094C	E6 TONS	0.52	0.23	0.76
LIPE PROCESSING	0.90	LB/TON	0.834	0.417	0.834	0.050S	0.050C	E6 TONS	26.1	13.1	16.4
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.465	0.233	0.465	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
ADIPIC ACID	1.00	LB/TON	12.000	1.200	12.000	0.015C	0.055C	E6 TONS	0.84	0.13	0.59
STEEL FOUNDRIES	0.90	LB/TON	0.200	0.000	0.200	0.028S	0.073S	E6 TONS	29.3	8.2	21.4

NITROGEN OXIDES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			UNITS/YR	INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N		P	B	C		A 1975	B 1985	C 1985
CERAMIC CLAY	0.80	LB/TON	0.465	0.233	0.465	0.033S	0.042S	0.042S	E6 TONS	13.9	4.6	5.8
FIXED FUEL BOILERS - COAL & REFUSE	0.58	LB/TON	35.000	15.000	37.500	0.000S	17.290S	17.290S	E6 TONS	0.16	0.0	27.0
COKE OVENS - BY PRODUCT	0.93	LB/TON	0.054	0.000	0.054	0.028S	0.010S	0.010S	E6 TONS	75.5	21.1	7.5
CHMT/TPA NITRIC ACID OXIDATION	0.85	LB/TON	13.000	1.300	13.000	0.045S	0.073C	0.073C	E6 TONS	0.38	0.17	0.39
FIBERGLAS MANUF - TEXTILE	0.70	LB/TON	15.300	2.870	15.300	0.063S	0.122C	0.122C	E6 TONS	0.52	0.32	1.1
FIBERGLAS MFG. WOOD PRODUCTS	0.70	LB/TON	3.620	1.570	3.620	0.063S	0.042C	0.042C	E5 TONS	1.1	0.68	0.55
MINERAL WOOD	0.82	LB/TON	0.160	0.080	0.160	0.029S	0.020S	0.020S	E6 TONS	8.4	2.5	1.7
PATHOLOGICAL INCINERATOR	0.34	LB/TON	25.000	0.000	25.000	0.039S	0.026C	0.026C	E6 TONS	0.13	0.051	0.038
FERTILIZER - NITRATES	0.77	LB/TON	0.125	0.000	0.125	0.045S	0.070C	0.070C	E6 TONS	10.5	4.7	10.2
GLASS - OPAL	0.80	LB/TON	2.040	0.000	5.290	0.033S	0.028C	0.028C	E6 TONS	0.46	0.15	0.15
SEC LEAD - REVERB FURN	0.68	LB/TON	0.938	0.000	5.320	0.024S	0.032C	0.032C	E6 TONS	0.71	0.17	0.26
FIXED FUEL BOILERS - OIL & REFUSE	0.58	LB/TON	15.000	13.800	34.500	0.000S	17.290S	17.290S	E6 TONS	0.036	0.0	6.2
COFFEE ROASTING	0.85	LB/TON	0.100	0.050	0.100	0.040S	0.000S	0.000S	E6 TONS	1.5	0.62	0.0
AUTOMOBILE INCINERATORS	0.90	LB/PRD UNIT	0.100	0.020	0.100	0.039S	0.280S	0.280S	E6 PU	0.29	0.11	0.82
SEC ZINC - DISTILLATION	0.82	LB/TON	0.072	0.000	0.072	0.035S	0.039C	0.039C	E6 TONS	0.38	0.13	0.18
SEC LEAD - BLAST FURN	0.68	LB/TON	0.157	0.000	0.157	0.024S	0.032C	0.032C	E6 TONS	0.15	0.036	0.055
SEC ZINC - SWEAT	0.82	LB/TON	0.072	0.000	0.072	0.035S	0.039C	0.039C	E6 TONS	0.20	0.069	0.091
SEC MAGNESIUM	0.82	LB/TON	0.347	0.000	0.347	0.035S	0.016S	0.016S	E6 TONS	0.017	0.0061	0.0028

NITROGEN OXIDES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS						TONS/YEAR T - T S N 1985	1 - E/E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
BLR >250 E6 BTU/HR	8311.	4728.	2364.	2433.	7604.	6564.	1040000.	0.199
INTERNAL COMBUSTION ENGS SPK IGN	3585.	1917.	1534.	1534.	3585.	2702.	882000.	0.430
INTERNAL COMBUSTION ENGS D/DF	1193.	932.	746.	746.	1193.	1053.	140000.	0.213
BLR 10-250 E6 BTU/HR	1498.	1297.	649.	652.	1482.	929.	553000.	0.664
BOILERS .3-10 MM BTU/HR	973.	642.	405.	405.	979.	922.	56200.	0.098
GAS TURBINE ENGINES ELECTRIC UTILITIES	1601.	433.	346.	346.	1601.	534.	1060000.	0.850
• BOILERS <.3 MM BTU/HR	397.	299.	239.	239.	397.	317.	80200.	0.506
PORTLAND CEMENT	162.	121.	90.4	90.4	162.	137.	25000.	0.350
GAS TURBINE ENGINES GAS PIPELINE	277.	113.	90.3	90.3	277.	118.	158000.	0.850
EXPLOSIVES - HIGH	316.	129.	70.9	70.9	316.	87.6	228000.	0.932
NITRIC ACID	558.	112.	55.9	132.	80.3	72.2	8100.	0.333
• GLASS - SODA LIME	93.3	28.1	18.8	48.8	36.0	18.8	17100.	1.000
MUNICIPAL INCINERATORS	39.9	27.3	16.7	16.7	39.9	25.2	14600.	0.633
PET REF - PR6C GAS COMB	33.4	22.1	15.2	15.2	33.4	24.3	9000.	0.500
INDUSTRIAL/COMMERCIAL INCINERATORS	32.9	11.6	7.1	7.1	32.9	16.0	16800.	0.652
EXPLOSIVES - LOW	22.0	8.9	4.9	4.9	22.0	6.1	15800.	0.930
• LIME PROCESSING	16.0	9.8	4.9	4.9	16.0	10.4	5500.	0.500
• BRICK & RELATED CLAY PRODUCTS	8.4	6.6	4.4	4.4	8.4	6.4	1900.	0.499
ADIPIC ACID	8.6	5.0	4.2	4.2	8.6	4.7	3900.	0.900
• STEEL FOUNDRIES	4.6	2.6	1.9	1.9	4.6	1.9	2600.	1.000

NITROGEN OXIDES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS						TONS/YEAR T-T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
* CERAMIC CLAY	3.7	2.6	1.7	1.7	3.7	2.7	960.	0.499
MIXED FUEL BOILERS - COAL & REFUSE	295.	1.6	1.6	1.7	275.	119.	156000.	0.571
* COKE OVENS - BY PRODUCT	2.1	1.9	1.4	1.4	2.1	1.4	720.	1.000
DMT/TPA NITRIC ACID OXIDATION	4.2	2.1	1.2	1.2	4.2	1.5	2700.	0.900
FIBERGLAS MANUF - TEXTILE	8.8	2.8	1.0	1.0	8.8	2.5	6200.	0.812
FIBERGLASS MFG. WOOL PRODUCTS	2.1	1.4	0.52	0.52	2.1	1.2	880.	0.566
* MINERAL WOOL	0.66	0.55	0.39	0.39	0.66	0.53	130.	0.500
* PATHOLOGICAL INCINERATOR	0.71	0.55	0.34	0.34	0.71	0.34	370.	1.000
* FERTILIZER - NITRATES	0.99	0.51	0.28	0.28	0.99	0.28	710.	1.000
* GLASS - APAL	1.3	0.37	0.25	0.65	0.49	0.25	240.	1.000
* SEC LEAD - REVERB FURN	1.8	0.23	0.17	0.98	0.31	0.17	130.	1.000
MIXED FUEL BOILERS - OIL & REFUSE	62.6	0.16	0.16	0.36	27.2	25.1	2100.	0.080
* COFFEE ROASTING	0.066	0.066	0.040	0.040	0.066	0.053	10.0	0.500
AUTOBODY INCINERATORS	0.050	0.013	0.080	0.080	0.050	0.016	30.0	0.800
* SEC ZINC - DISTILLATION	0.016	0.011	0.0073	0.0073	0.016	0.0073	9.2	1.000
* SEC LEAD - BLAST FURN	0.011	0.0079	0.0060	0.0060	0.011	0.0060	4.8	1.000
* SEC ZINC - SWEAT	0.0085	0.0058	0.0038	0.0038	0.0085	0.0038	4.7	1.000
* SEC MAGNESIUM	0.0029	0.0025	0.0016	0.0016	0.0029	0.0016	1.3	1.000

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NITROGEN OXIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES			INDUSTRY CAPACITY/PRODUCTION		
			F S	E N	UNCONT E U	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
PLR >250 E6 BTU/HR EXIST. NEW.	0.58 0.58	LB/E6 BTU	0.582 0.534	0.428	0.599	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
INTERNAL COMBUSTION ENGS SP4 IGN LB/T6N	0.58	LB/T6N	230.000	131.000	230.000	0.020S	0.087S	E6 TONS	28.7	5.7	25.0
INTERNAL COMBUSTION ENGS D/OF LB/T6N	0.58	LB/T6N	175.000	123.000	179.000	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
BLR 10-250 E6 BTU/HR EXIST. NEW.	0.32 0.32	LB/E6 BTU	0.415 0.411	0.138	0.417	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
BOILERS 3-10 MM BTU/HR 0.25 LB/E6 BTU	0.25	LB/E6 BTU	0.194	0.175	0.194	0.037S	0.043C	E12 BTU	26491.	9802.	13868.
GAS TURBINE ENGINES ELECTRIC UTILITIES 0.22 LB/T6N	0.22	LB/T6N	72.700	10.900	72.700	0.020S	0.270S	E6 TONS	54.1	10.8	146.
BOILERS <0.3 MM BTU/HR 0.30 LB/E6 BTU	0.30	LB/E6 BTU	0.081	0.040	0.081	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
NITRIC ACID EXIST. NEW.	0.88 0.88	LB/T6N	22.300 3.000	2.000	52.500	0.050S	0.078C	E6 TONS	11.4	5.7	12.8
PORTLAND CEMENT 0.90 LB/T6N	0.90	LB/T6N	2.600	1.690	2.600	0.025S	0.030C	E6 TONS	103.	25.8	35.4
GAS TURBINE ENGINES GAS PIPELINE 0.85 LB/T6N	0.85	LB/T6N	60.500	9.080	60.500	0.020S	0.145S	E6 TONS	4.4	0.88	6.4
EXPLOSIVES - HIGH 0.83 LB/T6N	0.83	LB/T6N	169.000	11.500	169.000	0.045S	0.094C	E6 TONS	1.8	0.83	2.7
GLASS - SODA LIME 0.80 LB/T6N	0.80	LB/T6N	2.040	0.000	5.290	0.033S	0.028S	E6 TONS	34.4	11.4	9.6
MUNICIPAL INCINERATORS 0.56 LB/T6N	0.56	LB/T6N	3.000	1.100	3.000	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
PET REF - PRBC GAS COMB 0.85 LB/E6 BTU	0.85	LB/E6 BTU	230.000	115.000	230.000	0.031S	0.042C	E12 BTU	0.23	0.070	0.12
INDUSTRIAL/COMMERCIAL INCINERATORS 0.38 LB/T6N	0.38	LB/T6N	1.870	0.650	1.870	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
EXPLOSIVES - LOW 0.83 LB/T6N	0.83	LB/T6N	41.500	2.910	41.500	0.045S	0.094C	E6 TONS	0.52	0.23	0.76
LIME PROCESSING 0.90 LB/T6N	0.90	LB/T6N	0.834	0.417	0.834	0.050S	0.050C	E6 TONS	26.1	13.1	16.4
BRICK & RELATED CLAY PRODUCTS 0.80 LB/T6N	0.80	LB/T6N	0.465	0.233	0.465	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
ADIPIIC ACID 1.00 LB/T6N	1.00	LB/T6N	12.000	1.200	12.000	0.015C	0.055C	E6 TONS	0.84	0.13	0.59
STEEL FOUNDRIES 0.90 LB/T6N	0.90	LB/T6N	0.200	0.000	0.200	0.028S	0.073S	E6 TONS	29.3	8.2	21.4

NITROGEN OXIDES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES			CAPACITY/PRODUCTION		
			ALLOWABLE E	N	UNCONT E	DECIMAL/YR P	B	C	1975	1985	1985
CERAMIC CLAY											
MIXED FUEL BOILERS - COAL & REFUSE	0.50	LB/TON	0.465	0.233	0.465	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
COKE OVENS - BY PRODUCT	0.56	LB/TON	35.000	15.000	37.500	0.000S	17.290S	E6 TONS	0.16	0.0	27.0
CPT/TPA NITRIC ACID OXIDATION	0.93	LB/TON	0.054	0.000	0.054	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
FIBERGLAS MANUF - TEXTILE	0.85	LB/TON	13.000	1.300	13.000	0.045S	0.073C	E6 TONS	0.38	0.17	0.39
SEC LEAD - REVERB FURN	0.70	LB/TON	15.300	2.870	15.300	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
GLASS - OPAL	0.68	LB/TON	0.938	0.000	5.320	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
FIBERGLASS MFG. WHOL PRODUCTS	0.80	LB/TON	2.040	0.000	5.290	0.033S	0.028C	E6 TONS	0.46	0.15	0.15
MINERAL WOOL	0.70	LB/TON	3.620	1.570	3.620	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
MIXED FUEL BOILERS - OIL & REFUSE	0.82	LB/TON	0.160	0.080	0.160	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
PATHOLOGICAL INCINERATOR	0.58	LB/TON	15.000	13.800	34.500	0.000S	17.290S	E6 TONS	0.036	0.0	6.2
FERTILIZER - NITRATES	0.34	LB/TON	25.000	0.000	25.000	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
COFFEE ROASTING	0.77	LB/TON	0.125	0.000	0.125	0.045S	0.070C	E6 TONS	10.5	4.7	10.2
AUTOMOBILE INCINERATORS	0.65	LB/TON	0.100	0.050	0.100	0.040S	0.000S	E6 TONS	1.5	0.62	0.0
SEC ZINC - DISTILLATION	0.90	LB/PRD UNIT	0.100	0.020	0.100	0.039S	0.280S	E6 PU	0.29	0.11	0.82
SEC LEAD - BLAST FURN	0.32	LB/TON	0.072	0.000	0.072	0.035S	0.039C	E6 TONS	0.38	0.13	0.18
SEC ZINC - SWEAT	0.68	LB/TON	0.157	0.000	0.157	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
SEC MAGNESIUM	0.82	LB/TON	0.072	0.000	0.072	0.035S	0.039C	E6 TONS	0.20	0.069	0.091
	0.82	LB/TON	0.347	0.000	0.347	0.035S	0.016S	E6 TONS	0.017	0.0061	0.0028

NITROGEN OXIDES

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS					T N 1985	T S 1985	T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985					
BLR >250 E6 BTU/HR	8311.	4728.	2364.	2433.	7604.	6564.	1040000.	0.199		
INTERNAL COMBUSTION ENGS SPK IGN	3585.	1917.	1534.	1534.	3585.	2702.	882000.	0.430		
INTERNAL COMBUSTION ENGS D/DF	1193.	932.	746.	746.	1193.	1053.	140000.	0.313		
BLR 10-250 E6 BTU/HR	1494.	1297.	649.	652.	1482.	929.	553000.	0.664		
BOILERS .3-10 MM BTU/HR	979.	642.	405.	405.	979.	922.	56200.	0.098		
GAS TURBINE ENGINES ELECTRIC UTILITIES	1601.	433.	346.	346.	1601.	534.	1060000.	0.850		
* BOILERS <.3 MM BTU/HR	397.	299.	239.	239.	397.	317.	80200.	0.506		
NITRIC ACID	553.	112.	55.9	132.	80.3	72.2	8100.	0.333		
PORTLAND CEMENT	162.	121.	90.4	90.4	162.	137.	25000.	0.350		
GAS TURBINE ENGINES GAS PIPELINE	277.	113.	90.3	90.3	277.	118.	158000.	0.850		
EXPLOSIVES - HIGH	316.	129.	70.9	70.9	316.	87.6	228000.	0.932		
* GLASS - SODA LIME	93.3	28.1	18.8	43.8	36.0	18.8	17100.	1.000		
MUNICIPAL INCINERATORS	39.9	27.3	16.7	16.7	39.9	25.2	14600.	0.633		
PET REF - PROC GAS COMB	33.4	22.1	15.2	15.2	33.4	24.3	9000.	0.500		
INDUSTRIAL/COMMERCIAL INCINERATORS	32.5	11.6	7.1	7.1	32.9	16.0	16800.	0.652		
EXPLOSIVES - LOW	22.0	8.9	4.9	4.9	22.0	6.1	15800.	0.930		
* LIME PROCESSING	16.0	9.8	4.9	4.9	16.0	10.4	5500.	0.500		
* BRICK & RELATED CLAY PRODUCTS	8.4	6.6	4.4	4.4	8.4	6.4	1900.	0.499		
ADIPIC ACID	8.6	5.0	4.2	4.2	8.6	4.7	3900.	0.900		
* STEEL FOUNDRIES	4.6	2.6	1.9	1.9	4.6	1.9	2600.	1.000		

NITROGEN OXIDES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					T N 1985	T S 1985	T N 1985	T N 1985	1 - E / E N S
	T 1985	T 1975	T 1985	T 1985	T 1985					
* CERAMIC CLAY										
MIXED FUEL BOILERS - COAL & REFUSE	3.7	2.6	1.7	1.7	3.7	2.7	3.7	960.	0.499	
* COKE OVENS - BY PRODUCT	295.	1.6	1.6	1.7	275.	119.		156000.	0.571	
DMT/TPA NITRIC ACID OXIDATION	2.1	1.9	1.4	1.4	2.1	1.4		720.	1.000	
FIBERGLAS MANUF - TEXTILE	4.2	2.1	1.2	1.2	4.2	1.5		2700.	0.900	
* SEC LEAD - REVERSE FURN	5.8	2.8	1.0	1.0	8.8	2.5		6200.	0.812	
* GLASS - OPAL	1.8	0.23	0.17	0.58	0.31	0.17		130.	1.000	
FIBERGLASS MFG. WOOL PRODUCTS	1.3	0.37	0.25	0.65	0.49	0.25		240.	1.000	
* MINERAL WOOL	2.1	1.4	0.52	0.52	2.1	1.2		880.	0.566	
MIXED FUEL BOILERS - OIL & REFUSE	0.66	0.55	0.39	0.33	0.66	0.53		130.	0.500	
* PATHOLOGICAL INCINERATOR	62.6	0.16	0.16	0.36	27.2	25.1		2100.	0.080	
* FERTILIZER - NITRATES	0.71	0.55	0.34	0.34	0.71	0.34		370.	1.000	
* COFFEE ROASTING	0.99	0.51	0.28	0.28	0.99	0.28		710.	1.000	
AUTOBODY INCINERATORS	0.066	0.066	0.040	0.040	0.066	0.053		10.0	0.500	
* SEC ZINC - DISTILLATION	0.050	0.013	0.0080	0.0080	0.050	0.016		30.0	0.800	
* SEC LEAD - BLAST FURN	0.011	0.011	0.0073	0.0073	0.016	0.0073		9.2	1.000	
* SEC ZINC - SWEAT	0.011	0.0079	0.0060	0.0060	0.011	0.0060		4.8	1.000	
* SEC MAGNESIUM	0.0085	0.0058	0.0038	0.0038	0.0085	0.0038		4.7	1.000	
	0.0029	0.0025	0.0016	0.0016	0.0029	0.0016		1.3	1.000	

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NITROGEN OXIDES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES			CAPACITY/PRODUCTION			INDUSTRY		
			AVAILABLE F S	E	N	UNCONT E U	P B	C	UNITS/YR	A 1975	B 1985		C 1985	
ELR >250 E6 BTU/HR EXIST. NEW	0.58 0.58	LB/E6 BTU	0.582 0.534		0.428		0.599	0.050S	0.055C		E12 BTU	28011.	14006.	19836.
INTERNAL COMBUSTION ENGS SPK IGN	0.58	LB/TON	230.000		131.000		230.000	0.020S	0.087S		E6 TONS	28.7	5.7	25.0
6.5 TURBINE ENGINES ELECTRIC UTILITIES	0.22	LB/TON	72.700		10.900		72.700	0.020S	0.270S		E6 TONS	54.1	10.8	146.
ELR 1C-250 E6 BTU/HR EXIST. NEW	0.32 0.32	LB/E6 BTU	0.415 0.411		0.138		0.417	0.050S	0.014C		E12 BTU	19534.	9767.	2914.
INTERNAL COMBUSTION ENGS D/DF	0.58	LB/TON	179.000		123.000		179.000	0.020S	0.028S		E6 TONS	18.0	3.6	5.0
BOILERS 3-10 MM BTU/HR	0.25	LB/E6 BTU	0.194		0.175		0.194	0.037S	0.043C		E12 BTU	26491.	9802.	13868.
BOILERS <3 MM BTU/HR	0.30	LB/E6 BTU	0.081		0.040		0.081	0.020S	0.029C		E12 BTU	24572.	4914.	8131.
EXPLOSIVES - HIGH	0.83	LB/TON	169.000		11.500		169.000	0.045S	0.094C		E6 TONS	1.8	0.83	2.7
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	60.500		9.080		60.500	0.020S	0.145S		E6 TONS	4.4	0.88	6.4
MIXED FUEL BOILERS - COAL & REFUSE	0.58	LB/TON	35.000		15.000		37.500	0.000S	17.290S		E6 TONS	0.16	0.0	27.0
PORTLAND CEMENT	0.90	LB/TON	2.600		1.690		2.600	0.025S	0.030C		E6 TONS	103.	25.8	35.4
NITRIC ACID EXIST. NEW	0.88 0.88	LB/TON	22.300 3.000		2.000		52.500	0.050S	0.078C		E6 TONS	11.4	5.7	12.8
MUNICIPAL INCINERATORS	0.56	LB/TON	3.000		1.100		3.000	0.039S	0.046S		E6 TONS	32.5	12.7	14.9
GLASS - SODA LIME	0.80	LB/TON	2.040		0.000		5.290	0.033S	0.028S		E6 TONS	34.4	11.4	9.6
PET REF - PROC GAS COMB	0.85	LB/E6 BTU	230.000		115.000		230.000	0.031S	0.042C		E12 BTU	0.23	0.070	0.12
INDUSTRIAL/COMMERCIAL INCINERATORS	0.38	LB/TON	1.870		0.650		1.870	0.039S	0.110C		E6 TONS	32.6	12.7	60.0
MIXED FUEL BOILERS - OIL & REFUSE	0.58	LB/TON	15.000		13.800		34.500	0.000S	17.290S		E6 TONS	0.036	0.0	6.2
EXPLOSIVES - LOW	0.83	LB/TON	41.500		2.910		41.500	0.045S	0.094C		E6 TONS	0.52	0.23	0.76
LIME PROCESSING	0.90	LB/TON	0.834		0.417		0.834	0.050S	0.050C		E6 TONS	26.1	13.1	16.4
FIBERGLAS MANUF - TEXTILE	0.70	LB/TON	15.300		2.870		15.300	0.063S	0.122C		E6 TONS	0.52	0.32	1.1

NITROGEN OXIDES

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
			ALLRWABLE E	EMISSION E		P	B	P	A	B	C
			S	N	U				1975	1985	1985
ACIPIC ACID	1.00	LB/TON	12.000	1.200	12.000	0.015C	0.055C	E6 TONS	0.84	0.13	0.59
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.465	0.233	0.465	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
STEEL FOUNDRIES	0.90	LB/TON	0.200	0.200	0.200	0.028S	0.073S	E6 TONS	29.3	8.2	21.4
CYT/TPA NITRIC ACID OXIDATION	0.85	LB/TON	13.000	1.300	13.000	0.045S	0.073C	E6 TONS	0.38	0.17	0.39
CERAMIC CLAY	0.80	LB/TON	0.465	0.233	0.465	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
COKE OVENS - BY PRODUCT	0.93	LB/TON	0.054	0.000	0.054	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
FIBERGLASS MFG. WOOL PRODUCTS	0.70	LB/TON	3.620	1.570	3.620	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
FERTILIZER - NITRATES	0.77	LB/TON	0.125	0.000	0.125	0.045S	0.070C	E6 TONS	10.5	4.7	10.2
PATHOLOGICAL INCINERATOR	0.34	LB/TON	25.000	0.000	25.000	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
PINERAL WOOL	0.82	LB/TON	0.160	0.080	0.160	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
GLASS - SPAL	0.80	LB/TON	2.040	0.000	5.290	0.033S	0.028C	E6 TONS	0.46	0.15	0.15
SEC LEAD - REVERB FURN	0.68	LB/TON	0.938	0.000	5.320	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
COFFEE ROASTING	0.85	LB/TON	0.100	0.050	0.100	0.040S	0.000S	E6 TONS	1.5	0.62	0.0
AUTOBODY INCINERATORS	0.90	LB/PRD UNT	0.100	0.020	0.100	0.039S	0.0280S	E6 PU	0.29	0.11	0.82
SEC ZINC - DISTILLATION	0.82	LB/TON	0.072	0.000	0.072	0.035S	0.039C	E6 TONS	0.38	0.13	0.18
SEC LEAD - BLAST FURN	0.68	LB/TON	0.157	0.000	0.157	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
SEC ZINC - SWEAT	0.82	LB/TON	0.072	0.000	0.072	0.035S	0.039C	E6 TONS	0.20	0.069	0.091
SEC MAGNESIUM	0.82	LB/TON	0.347	0.000	0.347	0.035S	0.016S	E6 TONS	0.017	0.0061	0.0028

NITROGEN OXIDES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					T N 1985	TONS/YEAR T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985			
BLR >250 E6 BTU/HR	8311.	4728.	2364.	2433.	7604.	6564.	1040000.	0.199
INTERNAL COMBUSTION ENGS SPK IGN	3585.	1917.	1534.	1534.	3585.	2702.	682000.	0.430
GAS TURBINE ENGINES ELECTRIC UTILITIES	1601.	433.	346.	346.	1601.	534.	1060000.	0.850
BLR 10-250 E6 BTU/HR	1498.	1297.	449.	652.	1482.	929.	553000.	0.664
INTERNAL COMBUSTION ENGS D/DF	1193.	932.	746.	746.	1193.	1053.	140000.	0.313
BOILERS .3-10 MM BTU/HR	979.	642.	405.	405.	979.	922.	56200.	0.098
* BOILERS <.3 MM BTU/HR	397.	299.	239.	239.	397.	317.	80200.	0.506
EXPLOSIVES - HIGH	316.	129.	70.9	70.9	316.	87.6	228000.	0.932
GAS TURBINE ENGINES GAS PIPELINE	277.	113.	90.3	90.3	277.	118.	158000.	0.850
MIXED FUEL BOILERS - COAL & REFUSE	295.	1.6	1.6	1.7	275.	119.	156000.	0.571
PORTLAND CEMENT	162.	121.	90.4	90.4	162.	137.	25000.	0.350
NITRIC ACID	558.	112.	55.9	132.	80.3	72.2	8100.	0.333
MUNICIPAL INCINERATORS	39.9	27.3	16.7	16.7	39.9	25.2	14600.	0.633
* GLASS - SODA LIME	93.3	28.1	18.8	.48.8	36.0	18.8	17100.	1.000
PET REF - PROC GAS COMB	33.4	22.1	15.2	15.2	33.4	24.3	9000.	0.500
INDUSTRIAL/COMMERCIAL INCINERATORS	32.9	11.6	7.1	7.1	32.9	16.0	16800.	0.652
MIXED FUEL BOILERS - OIL & REFUSE	62.6	0.16	0.16	0.36	27.2	25.1	2100.	0.080
EXPLOSIVES - LOW	22.0	8.9	4.9	4.9	22.0	6.1	15800.	0.930
* LIME PROCESSING	16.0	9.8	4.9	4.9	16.0	10.4	5500.	0.500
FIBERGLAS MANUF - TEXTILE	8.8	2.8	1.0	1.0	8.8	2.5	6200.	0.812

NITROGEN OXIDES
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS			T N 1985	TONS/YEAR T-S-N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985			
ADIPIC ACID	8.6	5.0	4.2	4.2	8.6	4.7	3900.	0.900
* BRICK & RELATED CLAY PRODUCTS	8.4	6.6	4.4	4.4	8.4	6.4	1900.	0.499
* STEEL FOUNDRIES	4.6	2.6	1.9	1.9	4.6	1.9	2600.	1.000
DMT/TPA NITRIC ACID OXIDATION	4.2	2.1	1.2	1.2	4.2	1.5	2700.	0.900
* CERAMIC CLAY	3.7	2.6	1.7	1.7	3.7	2.7	960.	0.499
* COKE OVENS - BY PRODUCT	2.1	1.9	1.4	1.4	2.1	1.4	720.	1.000
FIBERGLASS MFG. WOOL PRODUCTS	2.1	1.4	0.52	0.52	2.1	1.2	880.	0.566
* FERTILIZER - NITRATES	0.99	0.51	0.28	0.28	0.99	0.28	710.	1.000
* PATHOLOGICAL INCINERATOR	0.71	0.55	0.34	0.34	0.71	0.34	370.	1.000
* MINERAL WOOL	0.66	0.55	0.39	0.39	0.66	0.53	130.	0.500
* GLASS - 8PAL	1.3	0.37	0.25	0.65	0.49	0.25	240.	1.000
* SEC LEAD - REVERB FURN	1.8	0.23	0.17	0.98	0.31	0.17	130.	1.000
* COFFEE ROASTING	0.066	0.066	0.040	0.040	0.066	0.053	10.0	0.500
AUTOBODY INCINERATORS	0.050	0.013	0.0080	0.0080	0.050	0.016	30.0	0.800
* SEC ZINC - DISTILLATION	0.016	0.011	0.0073	0.0073	0.016	0.0073	9.2	1.000
* SEC LEAD - BLAST FURN	0.011	0.0079	0.0060	0.0060	0.011	0.0060	4.8	1.000
* SEC ZINC - SWEAT	0.0085	0.0058	0.0038	0.0038	0.0085	0.0038	4.7	1.000
* SEC MAGNESIUM	0.0029	0.0025	0.0016	0.0016	0.0029	0.0016	1.3	1.000

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NITROGEN OXIDES

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION ALLOWABLE E S	EMISSION RATES		UNCONT E U	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
				E N	E N		P B	P C	UNITS/YR	A 1975	B 1985	C 1985
GAS TURBINE ENGINES ELECTRIC UTILITIES												
BLR >250 E6 BTU/HR EXIST- NEW=	0.22 0.58 0.58	LB/TON	72.700	10.900	72.700	0.020S	0.020S	0.270S	E6 TONS	54.1	10.8	146.
INTERNAL COMBUSTION ENGS SPK IGN EXIST- NEW=	0.58 0.58	LB/E6 BTU	0.582 0.534	0.428	0.599	0.050S	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
BLR 10-250 E6 BTU/HR EXIST- NEW=	0.58 0.32 0.32	LB/TON	230.000	131.000	230.000	0.020S	0.020S	0.087S	E6 TONS	28.7	5.7	25.0
EXPLOSIVES - HIGH	0.83	LB/E6 BTU	0.415 0.411	0.138	0.417	0.050S	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
GAS TURBINE ENGINES GAS PIPELINE EXIST- NEW=	0.83 0.85	LB/TON	169.000	11.500	169.000	0.045S	0.045S	0.094C	E6 TONS	1.8	0.83	2.7
MIXED FUEL BOILERS - COAL & REFUSE EXIST- NEW=	0.85 0.58	LB/TON	60.500	9.080	60.500	0.020S	0.020S	0.145S	E6 TONS	4.4	0.88	6.4
INTERNAL COMBUSTION ENGS D/DF EXIST- NEW=	0.58 0.58	LB/TON	35.000	15.000	37.500	0.000S	0.000S	17.290S	E6 TONS	0.16	0.0	27.0
BOILERS <3 MM BTU/HR EXIST- NEW=	0.30 0.25	LB/TON	179.000	123.000	179.000	0.020S	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
PORTLAND CEMENT	0.90	LB/E6 BTU	0.081	0.040	0.081	0.020S	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
GLASS - SODA LIME	0.80	LB/E6 BTU	0.194	0.175	0.194	0.037S	0.037S	0.043C	E12 BTU	26491.	9802.	13868.
INDUSTRIAL/COMMERCIAL INCINERATORS EXIST- NEW=	0.38 0.63	LB/TON	2.600	1.690	2.600	0.025S	0.025S	0.030C	E6 TONS	103.	25.8	35.4
EXPLOSIVES - LOW	0.80 0.56	LB/TON	2.040	0.000	5.290	0.033S	0.033S	0.028S	E6 TONS	34.4	11.4	9.6
MUNICIPAL INCINERATORS	0.38	LB/TON	1.870	0.650	1.870	0.039S	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
FET REF - PROG GAS COMB	0.83 0.85	LB/TON	41.500	2.910	41.500	0.045S	0.045S	0.094C	E6 TONS	0.52	0.23	0.76
NITRIC ACID EXIST- NEW=	0.56 0.88	LB/TON	3.000	1.100	3.000	0.039S	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
FIBERGLAS MANUF - TEXTILE	0.70	LB/E6 BTU	230.000	115.000	230.000	0.031S	0.031S	0.042C	E12 BTU	0.23	0.070	0.12
LIME PROCESSING	0.85	LB/TON	22.300 3.000	2.000	52.500	0.050S	0.050S	0.078C	E6 TONS	11.4	5.7	12.8
ADIPIC ACID	0.88 0.88	LB/TON	15.300	2.870	15.300	0.063S	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
	0.70	LB/TON	0.834	0.417	0.834	0.050S	0.050S	0.050C	E6 TONS	26.1	13.1	16.4
	0.90	LB/TON	12.000	1.200	12.000	0.015C	0.015C	0.055C	E6 TONS	0.84	0.1	0.59

NITROGEN OXIDES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E U	GROWTH RATES DECIMAL/YR		C P	CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N		P	Q		A 1975	B 1985	C 1985
CMT/TPA NITRIC ACID OXIDATION	0.85	LB/TON	13.000	1.300	13.000	0.045S	0.073C	E6 TONS	0.38	0.17	0.39
STEEL FOUNDRIES	0.90	LB/TON	0.200	0.000	0.200	0.028S	0.073S	E6 TONS	29.3	8.2	21.4
MIXED FUEL BOILERS - OIL & REFUSE	0.58	LB/TON	15.000	13.800	34.500	0.000S	17.290S	E6 TONS	0.036	0.0	6.2
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.465	0.233	0.465	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
CERAMIC CLAY	0.80	LB/TON	0.465	0.233	0.465	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
FIBERGLASS MFG. W80L PRODUCTS	0.70	LB/TON	3.620	1.570	3.620	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
COKE OVENS - BY PRODUCT	0.93	LB/TON	0.054	0.000	0.054	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
FERTILIZER - NITRATES	0.77	LB/TON	0.125	0.000	0.125	0.045S	0.070C	E6 TONS	10.5	4.7	10.2
PATHOLOGICAL INCINERATOR	0.34	LB/TON	25.000	0.000	25.000	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
GLASS - OPAL	0.80	LB/TON	2.040	0.000	5.290	0.033S	0.028C	E6 TONS	0.46	0.15	0.15
SEC LEAD - REVERB FURN	0.68	LB/TON	0.938	0.000	5.320	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
MINERAL W80L	0.82	LB/TON	0.160	0.080	0.160	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
ALUMINOUS INCINERATORS	0.90	LB/PRD UNIT	0.100	0.020	0.100	0.039S	0.280S	E6 PU	0.29	0.11	0.82
COFFEE ROASTING	0.85	LB/TON	0.100	0.050	0.100	0.040S	0.000S	E6 TONS	1.5	0.62	0.0
SEC ZINC - DISTILLATION	0.82	LB/TON	0.072	0.000	0.072	0.035S	0.039C	E6 TONS	0.38	0.13	0.18
SEC LEAD - BLAST FURN	0.68	LB/TON	0.157	0.000	0.157	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
SEC ZINC - SWEAT	0.82	LB/TON	0.072	0.000	0.072	0.035S	0.039C	E6 TONS	0.20	0.069	0.091
SEC MAGNESIUM	0.82	LB/TON	0.347	0.000	0.347	0.035S	0.016S	E6 TONS	0.017	0.0061	0.0028

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS				T N 1985	T S 1985	T N 1985	TENS/YEAR T-S 1985	1 - E/E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985					
GAS TURBINE ENGINES ELECTRIC UTILITIES									
BLR >250 E6 BTU/HR	1601.	433.	346.	346.	1601.	534.	1060000.	0.850	
INTERNAL COMBUSTION ENGS SPK IGN	8311.	4728.	2364.	2433.	7604.	6564.	1040000.	0.199	
BLR 10-250 E6 BTU/HR	3585.	1917.	1534.	1534.	3585.	2702.	882000.	0.430	
EXPLOSIVES - HIGH	1498.	1277.	649.	652.	1482.	925.	553000.	0.564	
GAS TURBINE ENGINES GAS PIPELINE	316.	129.	70.9	70.9	316.	87.6	228000.	0.932	
MIXED FUEL BOILERS - COAL & REFUSE	277.	113.	90.3	90.3	277.	118.	158000.	0.850	
INTERNAL COMBUSTION ENGS D/DF	295.	1.6	1.6	1.7	275.	119.	156000.	0.571	
BOILERS <0.3 MM BTU/HR	1193.	932.	746.	746.	1193.	1053.	140000.	0.313	
BOILERS 0.3-10 MM BTU/HR	397.	299.	239.	239.	397.	317.	80200.	0.506	
PORTLAND CEMENT	573.	642.	405.	405.	979.	922.	56200.	0.098	
GLASS - SODA LIME	162.	121.	90.4	90.4	162.	137.	25000.	0.350	
INDUSTRIAL/COMMERCIAL INCINERATORS	93.3	28.1	18.8	48.8	36.0	18.8	17100.	1.000	
EXPLOSIVES - LOW	32.9	11.6	7.1	7.1	32.9	16.0	16800.	0.652	
MUNICIPAL INCINERATORS	22.0	8.9	4.9	4.9	22.0	6.1	15800.	0.930	
PET REF - PROC GAS COMB	39.9	27.3	16.7	16.7	39.9	25.2	14600.	0.633	
NITRIC ACID	33.4	22.1	15.2	15.2	33.4	24.3	9000.	0.500	
FIBERGLAS MANUF - TEXTILE	558.	112.	55.9	132.	80.3	72.2	8100.	0.333	
LIME PROCESSING	8.8	2.8	1.0	1.0	8.8	2.5	6200.	0.812	
ADIPIIC ACID	16.0	9.8	4.9	4.9	16.0	10.4	5500.	0.500	
	8.6	5.0	4.2	4.2	8.6	4.7	3900.	0.900	

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NITROGEN OXIDES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES			CAPACITY/PRODUCTION			C
			ALLOWABLE E S	E N	UNCONT E U	P B	P C	A 1975	B 1985		1985
ELR >250 E6 BTU/HR EXIST. NEW.	0.58 0.58	LB/E6 BTU	0.582 0.534	0.428	0.599	0.050S	0.055C	28011.	14006.		19836.
INTERNAL COMBUSTION ENGS SPK IGN 0.58		LB/TON	230.000	131.000	230.000	0.020S	0.087S	28.7	5.7		25.0
INTERNAL COMBUSTION ENGS D/DF 0.58		LB/TON	179.000	123.000	179.000	0.020S	0.028S	18.0	3.6		5.0
ELR 10-250 E6 BTU/HR EXIST. NEW.	0.32 0.32	LB/E6 BTU	0.415 0.411	0.138	0.417	0.050S	0.014C	19534.	9767.		2914.
BOILERS 3-10 MM BTU/HR 0.25		LB/E6 BTU	0.194	0.175	0.194	0.037S	0.043C	26491.	9802.		13868.
GAS TURBINE ENGINES ELECTRIC UTILITIES 0.22		LB/TON	72.700	10.900	72.700	0.020S	0.270S	54.1	10.8		146.
BOILERS <3 MM BTU/HR 0.30		LB/E6 BTU	0.081	0.040	0.081	0.020S	0.029C	24572.	4914.		8131.
PORTLAND CEMENT 0.90		LB/TON	2.600	1.690	2.600	0.025S	0.030C	103.	25.8		35.4
FIXED FUEL BOILERS - COAL & REFUSE 0.58		LB/TON	35.000	15.000	37.500	0.000S	17.290S	0.16	0.0		27.0
GAS TURBINE ENGINES GAS PIPELINE 0.35		LB/TON	60.500	9.080	60.500	0.020S	0.145S	4.4	0.88		6.4
EXPLOSIVES - HIGH 0.83		LB/TON	169.000	11.500	169.000	0.045S	0.094C	1.8	0.83		2.7
NITRIC ACID EXIST. NEW.	0.88 0.98	LB/TON	22.300 3.000	2.000	52.500	0.050S	0.078C	11.4	5.7		12.8
MUNICIPAL INCINERATORS 0.56		LB/TON	3.000	1.100	3.000	0.039S	0.046S	32.5	12.7		14.9
FIXED FUEL BOILERS - OIL & REFUSE 0.58		LB/TON	15.000	13.800	34.500	0.000S	17.290S	0.036	0.0		6.2
PET REF - PROC GAS COMB 0.85		LB/E6 BTU	230.000	115.000	230.000	0.031S	0.042C	0.23	0.070		0.12
GLASS - SODA LIME 0.80		LB/TON	2.040	0.000	5.290	0.033S	0.028S	34.4	11.4		9.6
INDUSTRIAL/COMMERCIAL INCINERATORS 0.38		LB/TON	1.870	0.650	1.870	0.039S	0.110C	32.6	12.7		60.0
LIME PROCESSING 0.90		LB/TON	0.834	0.417	0.834	0.050S	0.050C	26.1	13.1		16.4
BRICK & RELATED CLAY PRODUCTS 0.80		LB/TON	0.465	0.233	0.465	0.033S	0.027S	35.7	11.8		9.6
EXPLOSIVES - LOW 0.83		LB/TON	41.500	2.910	41.500	0.045S	0.094C	0.52	0.23		0.76

NITROGEN OXIDES
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCENT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	EMISSION E N		P	B	C	A 1975	B 1985	
ADIPIC ACID	1.00	LB/TON	12.000	1.200	12.000	0.015C	0.055C	E6 TONS	0.84	0.13	0.59
CERAMIC CLAY	0.80	LB/TON	0.465	0.233	0.465	0.033S	0.042S	E6 TONS	13.9	4.6	5.8
FIBERGLAS MANUF - TEXTILE	0.70	LB/TON	15.300	2.870	15.300	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
STEEL FOUNDRIES	0.90	LB/TON	0.200	0.000	0.200	0.028S	0.073S	E6 TONS	29.3	8.2	21.4
DRY/TPA NITRIC ACID OXIDATION	0.85	LB/TON	13.000	1.300	13.000	0.045S	0.073C	E6 TONS	0.38	0.17	0.39
CSKE OVENS - BY PRODUCT	0.93	LB/TON	0.054	0.000	0.054	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
FIBERGLASS MFG. MBL PRODUCTS	0.70	LB/TON	3.620	1.570	3.620	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
MINERAL MBL	0.82	LB/TON	0.160	0.080	0.160	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
PATHOLOGICAL INCINERATOR	0.34	LE/TON	25.000	0.000	25.000	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
FERTILIZER - NITRATES	0.77	LB/TON	0.125	0.000	0.125	0.045S	0.070C	E6 TONS	10.5	4.7	10.2
GLASS - SPAL	0.80	LB/TON	2.040	0.000	5.290	0.033S	0.028C	E6 TONS	0.46	0.15	0.15
SEC LEAD - REVERB FURN	0.68	LB/TON	0.938	0.000	5.320	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
COFFEE ROASTING	0.85	LB/TON	0.100	0.050	0.100	0.040S	0.000S	E6 TONS	1.5	0.62	0.0
AUTOBODY INCINERATORS	0.90	LB/HRD UNT	0.100	0.020	0.100	0.039S	0.280S	E6 PU	0.29	0.11	0.82
SEC ZINC - DISTILLATION	0.82	LB/TON	0.072	0.000	0.072	0.035S	0.039C	E6 TONS	0.38	0.13	0.18
SEC LEAD - BLAST FURN	0.68	LB/TON	0.157	0.000	0.157	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
SEC ZINC - SWTAT	0.82	LB/TON	0.072	0.000	0.072	0.035S	0.039C	E6 TONS	0.20	0.069	0.091
SEC MAGNESIUM	0.82	LB/TON	0.347	0.000	0.347	0.035S	0.016S	E6 TONS	0.017	0.0061	0.0028

NITROGEN OXIDES

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T-S-N 1985	I - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985	
BLR >250 E6 BTU/HR	8311.	4728.	2364.	2433.	7604.	6564.	0.199
INTERNAL COMBUSTION ENGS SPK IGN	3585.	1917.	1534.	1534.	3585.	2702.	0.430
INTERNAL COMBUSTION ENGS D/OF	1193.	932.	746.	746.	1193.	1053.	0.313
BLR 10-250 E6 BTU/HR	1498.	1297.	649.	652.	1482.	929.	0.664
BOILERS .3-10 MM BTU/HR	979.	642.	405.	405.	979.	922.	0.098
GAS TURBINE ENGINES ELECTRIC UTILITIES	1601.	433.	346.	346.	1601.	534.	0.850
• BOILERS <.3 MM BTU/HR	397.	299.	239.	239.	397.	317.	0.506
PORTLAND CEMENT	162.	121.	90.4	90.4	162.	137.	0.350
MIXED FUEL BOILERS - COAL & REFUSE	295.	16	1.6	1.7	275.	119.	0.571
GAS TURBINE ENGINES GAS PIPELINE	277.	113.	90.3	90.3	277.	118.	0.850
EXPLOSIVES - HIGH	316.	129.	70.9	70.9	316.	87.6	0.932
NITRIC ACID	558.	112.	55.9	132.	80.3	72.2	0.333
MUNICIPAL INCINERATORS	39.9	27.3	16.7	16.7	39.9	25.2	0.633
MIXED FUEL BOILERS - OIL & REFUSE	62.6	0.16	0.16	0.36	27.2	25.1	0.080
PET REF - PROC GAS COMB	33.4	22.1	15.2	15.2	33.4	24.3	0.500
• GLASS - SODA LIME	93.3	28.1	18.8	48.8	36.0	18.8	1.000
INDUSTRIAL/COMMERCIAL INCINERATORS	32.9	11.6	7.1	7.1	32.9	16.0	0.652
• LIME PROCESSING	16.0	9.8	4.9	4.9	16.0	10.4	0.500
• BRICK & RELATED CLAY PRODUCTS	8.4	6.6	4.4	4.4	8.4	6.4	0.499
EXPLOSIVES - LOW	22.0	8.9	4.9	4.9	22.0	6.1	0.930

NITROGEN OXIDES

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS			T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
			1000 TONS/YEAR T UE 1985	T E 1985	T S 1985			
ADIPIC ACID	8.6	5.0	4.2	4.2	8.6	4.7	3900.	0.900
* CERAMIC CLAY	3.7	2.6	1.7	1.7	3.7	2.7	960.	0.499
FIBERGLAS MANUF - TEXTILE	8.8	2.8	1.0	1.0	8.8	2.5	6200.	0.812
* STEEL FOUNDRIES	4.6	2.6	1.9	1.9	4.6	1.9	2600.	1.000
DMT/TPA NITRIC ACID OXIDATION	4.2	2.1	1.2	1.2	4.2	1.5	2700.	0.900
* COKE OVENS - BY PRODUCT	2.1	1.9	1.4	1.4	2.1	1.4	720.	1.000
FIBERGLASS MFG. WOOL PRODUCTS	2.1	1.4	0.52	0.52	2.1	1.2	880.	0.566
* MINERAL WOOL	0.66	0.55	0.39	0.39	0.66	0.53	130.	0.500
* PATHOLOGICAL INCINERATOR	0.71	0.55	0.34	0.34	0.71	0.34	370.	1.000
* FERTILIZER - NITRATES	0.99	0.51	0.28	0.28	0.99	0.28	710.	1.000
* GLASS - OPAL	1.3	0.37	0.25	0.25	0.49	0.25	240.	1.000
* SEC LEAD - REVERB FURN	1.8	0.23	0.17	0.17	0.31	0.17	130.	1.000
* COFFEE ROASTING	0.066	0.066	0.040	0.040	0.066	0.053	10.0	0.500
AUTOBODY INCINERATORS	0.050	0.013	0.0080	0.0080	0.050	0.016	30.0	0.800
* SEC ZINC - DISTILLATION	0.016	0.011	0.0073	0.0073	0.016	0.0073	9.2	1.000
* SEC LEAD - BLAST FURN	0.011	0.0079	0.0060	0.0060	0.011	0.0060	4.8	1.000
* SEC ZINC - SWEAT	0.0085	0.0058	0.0038	0.0038	0.0085	0.0038	4.7	1.000
* SEC MAGNESIUM	0.0029	0.0025	0.0016	0.0016	0.0029	0.0016	1.3	1.000

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SULFUR OXIDE
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE		GROWTH RATES DECIMAL/YR		UNCONT E	GROWTH RATES DECIMAL/YR		UNITS/YR	CAPACITY/PRODUCTION		C 1985
			S	N	P	B		P	C		A 1975	B 1985	
BLR >250 E6 BTU/HR EXIST. NEW.	0.58 0.58	LB/E6 BTU	1.800 0.970	0.123	1.990	0.050S	0.055C	E12 BTU	28011.	14006.	15336.		
BOILERS >3-10 MM BTU/HR 0.25		LB/E6 BTU	0.771	0.207	0.771	0.037S	0.043C	E12 BTU	26471.	9794.	13857.		
BOILERS <3 MM BTU/HR 0.30		LB/E6 BTU	0.107	0.000	0.107	0.020S	0.029C	E12 BTU	24572.	4914.	8131.		
BLR 10-250 E6 BTU/HR EXIST. NEW.	0.32 0.32	LB/E6 BTU	1.790 1.530	0.259	1.830	0.050S	0.014C	E12 BTU	19534.	9767.	2914.		
PET REF - FCCU													
ASPHALT BATCHING EXIST. NEW.	0.85 0.47 0.47	LB/TON	0.493 0.027 0.025	0.000 0.014	0.493 0.027	0.031S 0.008S	0.042C 0.050S	E6 TONS	1506.	467.	771.		
COAL CLEANING EXIST. NEW.	0.59 0.59	LB/TON	0.770 0.660	0.330	1.340	0.050S	0.029S	E6 TONS	133.	66.5	38.6		
CEMENT PLANTS EXIST. NEW.	0.90 0.90	LB/TON	21.700 21.000	3.840	21.700	0.025S	0.030C	E6 TONS	103.	25.8	35.4		
COKE OVENS - BY PRODUCT													
IRON AND STEEL - SINTERING 0.90		LB/TON	5.700 3.000	5.630 0.000	5.700 3.000	0.028S 0.028S	0.010S 0.029S	E6 TONS	75.5	21.1	7.5		
ORCHARD HEATERS									69.6	19.5	20.2		
GAS TURBINE ENGINES 0.22		LB/TON	16.600	9.480	16.600	0.020S	0.270S	E6 TONS	54.1	10.8	146.		
SULFURIC ACID PLANTS EXIST. NEW.	0.84 0.84	5B-A17 AS	35.000 4.000	3.000	55.000	0.045S	0.053C	E6 TONS	49.0	22.1	73.1		
BRICK & RELATED CLAY PRODUCTS 0.80		LB/TON	1.077	0.431	1.077	0.033S	0.027S	E6 TONS	35.7	11.8	9.6		
GLASS - SODA LIME		LB/TON	4.240	0.000	4.240	0.033S	0.028S	E6 TONS	34.4	11.4	9.6		
WOOD PULPING KRAFT 0.98		LB/TON	3.060	1.600	5.000	0.031S	0.012C	E6 TONS	34.0	10.5	4.3		
INDUSTRIAL COMMERCIAL INCINERATORS 0.38		LB/TON	2.380	0.000	2.380	0.039S	0.110C	E6 TONS	32.6	12.7	60.0		
MUNICIPAL INCINERATORS 0.56		LB/TON	3.900	0.000	3.900	0.039S	0.046S	E6 TONS	32.5	12.7	14.9		

SULFUR OXIDE
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCENT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N		P B	P C	UNITS/YR	A 1975	B 1985	C 1985
LIME PROCESSING											
INTERNAL COMB ENGS DIESEL DUALFUEL	0.90	LB/TON	1.420	0.710	1.420	0.050S	0.050C	E6 TONS	26.1	13.1	16.4
MINERAL W80L	0.58	LB/TON	16.800	14.300	16.800	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
PRIMARY ALUMINUM SMELTERS	0.82	LB/TON	0.020	0.000	0.020	0.025S	0.020S	E6 TONS	8.4	2.5	1.7
GAS TURBINE ENGINES GAS PIPELINE	0.92	LB/TON	56.100	0.000	60.000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4
W80D PULPING NSSC	0.85	LB/TON	5.270	4.380	5.270	0.020S	0.145S	E6 TONS	4.4	0.88	6.4
REFINERY FUEL GAS. - SULFUR RECOVERY	0.98	LB/TON	143.000	20.000	143.000	0.031S	0.012C	E6 TONS	4.2	1.3	0.53
0.66 LB/TON			38.400	20.000	75.000	0.030S	0.042C	E6 TONS	3.6	1.1	1.8
0.50 LB/TON			36.000	20.000	47.000	0.035S	0.042C	E6 TONS	2.9	1.0	1.5
COPPER SMELTERS				25.000	5000.000	0.036S	0.030C	E6 TONS	2.4	0.86	0.83
EXIST. 0.85		LB/TON	2503.000								
NEW. 0.85		LB/TON	2443.000								
W80D PULPING SULFITE											
EXPLOSIVES - HIGH	0.98	LB/TON	126.000	20.000	126.000	0.031S	0.012C	E6 TONS	2.4	0.74	0.30
PRIMARY ZINC SMELTERS	0.83	LB/TON	31.000	2.480	31.000	0.045S	0.094C	E6 TONS	1.8	0.83	2.7
EXIST. 0.83		LB/TON	2200.000	33.000	2200.000	0.036S	0.035C	E6 TONS	1.3	0.47	0.53
NEW. 0.83		LB/TON	1798.000								
FIBERGLASS MANUF - W80L											
0.70 LB/TON			6.510	0.040	6.510	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
PRIMARY LEAD SMELTERS											
EXIST. 0.59		LB/TON	1320.000	19.800	1320.000	0.036S	0.000S	E6 TONS	0.77	0.28	0.0
NEW. 0.85		LB/TON	1320.000								
SEC LEAD REVERTB FURN											
0.68 LB/TON			202.000	2.120	212.000	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
EXPLOSIVES - LOW	0.83	LB/ON	65.000	5.200	65.000	0.045S	0.094C	E6 TONS	0.52	0.23	0.76
FIBERGLASS MANUF - TEXTILE	0.70	LB/TON	16.200	0.040	16.200	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
GLASS - 8PAL	0.80	LB/TON	4.240	0.000	4.240	0.033S	0.028S	E6 TONS	0.46	0.15	0.13
HYDROFLUORIC ACID	0.98	LB/TON	2.100	0.000	2.100	0.045S	0.049S	E6 TONS	0.45	0.20	0.22
PET REFRY PROC GAS COMB	0.85	LB/E6 CFT	2490.000	28.600	8260.000	0.031S	0.042C	E12 BTU	0.23	0.071	0.12
EXIST. 0.85			28.600								
NEW. 0.85											

SULFUR DIOXIDE
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			S	E	N	P	B	C	A	B	C
									1975	1985	1985
FIXED FUEL BOILERS - COAL & REFUSE											
0.58		LB/TON	60.000	44.800	224.000	0.0005	17.2905	E6 TONS	0.16	0.0	27.0
SEC LEAD - BLAST FURN											
0.68		LB/TON	46.600	0.480	48.000	0.0245	0.032C	E6 TONS	0.15	0.036	0.055
FIXED FUEL BOILERS - OIL & REFUSE											
0.58		LB/TON	20.500	4.100	20.500	0.0005	17.2905	E6 TONS	0.036	0.0	6.2

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

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SULFUR DIOXIDE
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS						T N /E S N S
	T U 1965	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985	
* MINERAL WOOL							
* PRIMARY ALUMINUM SMELTERS	0.083	0.069	0.049	0.049	0.083	0.049	1.000
GAS TURBINE ENGINES GAS PIPELINE	341.	155.	101.	108.	319.	101.	1.000
WOOD PULPING NSSC	24.1	9.8	7.9	7.9	24.1	21.3	0.169
REFINERY FUEL GAS - SULFUR RECOVERY	330.	293.	202.	202.	330.	220.	0.860
OIL AND NAT. GAS PROD-SULFUR RECOVERY	133.	45.2	31.7	61.9	68.3	50.7	0.479
COPPER SHELTERS	50.9	25.8	16.8	21.9	39.0	29.1	0.444
WOOD PULPING SULFITE	6854.	2553.	1634.	3264.	3388.	1652.	0.990
EXPLOSIVES - HIGH	167.	148.	102.	102.	167.	113.	0.641
PRIMARY ZINC SHELTERS	58.0	23.6	13.0	13.0	58.0	14.6	0.920
FIBERGLASS MANUF - WOOL	1674.	1187.	760.	760.	1507.	773.	0.982
PRIMARY LEAD SHELTERS	3.7	2.5	0.93	0.93	3.7	0.94	0.974
SEC LEAD REVERTB FURN	458.	503.	276.	276.	458.	279.	0.985
EXPLOSIVES - LOW	70.4	49.0	37.2	39.1	67.1	37.5	0.990
FIBERGLASS MANUF - TEXTILE	34.4	14.0	7.7	7.7	34.4	9.8	0.920
* GLASS - 8PAL	9.3	2.9	1.1	1.1	9.3	1.1	0.998
* HYDROFLUORIC ACID	0.99	0.77	0.52	0.52	0.93	0.52	1.000
PET REFRY PROC GAS COMB	0.69	0.46	0.25	0.25	0.69	0.25	1.000
MIXED FUEL BOILERS - COAL & REFUSE	0.0012	0.00	0.00	0.00	0.00	0.00	-0.000
SEC LEAD - BLAST FURN	1762.	2.7	2.7	10.1	472.	353.	0.253
	3.3	2.3	1.8	1.8	3.2	1.8	0.990

SULFUR OXIDE

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T-T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985		
MIXED FUEL BOILERS - OIL & REFUSE	37.2	0.21	0.21	0.21	37.2	7.6	0.800

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SULFUR DIOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCERT E U	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION			C 1985
			ALLOWABLE E S	E N		P B	P C	UNITS/YR	A 1975	B 1985		
BLR >250 E6 BTU/HR EXIST. NEW	0.58 0.58	LB/E6 BTU	1.800 0.970	0.123	1.990	0.050S	0.055C	E12 BTU	28011.	14006.	19836.	
BOILERS >3-10 MM BTU/HR NEW	0.25	LB/E6 BTU	0.771	0.207	0.771	0.037S	0.043C	E12 BTU	26471.	9794.	13857.	
BLR 10-250 E6 BTU/HR EXIST. NEW	0.32 0.32	LB/E6 BTU	1.790 1.530	0.259	1.830	0.050S	0.014C	E12 BTU	19534.	9767.	2914.	
BOILERS <0.3 MM BTU/HR NEW	0.30	LB/E6 BTU	0.107	0.000	0.107	0.020S	0.029C	E12 BTU	24572.	4914.	8131.	
PET REF - FCCU	0.85	LB/TON	0.493	0.000	0.493	0.031S	0.042C	E6 TONS	1506.	467.	771.	
ASPHALT BATCHING EXIST. NEW	0.47 0.47	LB/TON	0.027 0.025	0.014	0.027	0.008S	0.050S	E6 TONS	1480.	118.	740.	
COAL CLEANING EXIST. NEW	0.59 0.59	LB/TON	0.770 0.660	0.330	1.340	0.050S	0.029S	E6 TONS	133.	66.5	38.6	
CEMENT PLANTS EXIST. NEW	0.90 0.90	LB/TON	21.700 21.000	8.840	21.700	0.025S	0.030C	E6 TONS	103.	25.8	35.4	
SULFURIC ACID PLANTS EXIST. NEW	0.84 0.84	58-A17 AS	35.000 4.000	3.000	55.000	0.045S	0.053C	E6 TONS	49.0	22.1	33.1	
COKE OVENS - BY PRODUCT NEW	0.93	LB/TON	5.700	5.630	5.700	0.028S	0.010S	E6 TONS	75.5	21.1	7.5	
IRON AND STEEL - SINTERING NEW	1.00 0.90	LB/TON	0.037 3.000	0.000	0.037	0.033S	0.028S	E6 TONS	60.0	19.8	16.8	
LIME PROCESSING	0.90	LB/TON	1.420	0.710	1.420	0.050S	0.050C	E6 TONS	26.1	13.1	16.4	
INDUSTRIAL COMMERCIAL INCINERATORS	0.38	LB/TON	2.380	0.000	2.380	0.039S	0.110C	E6 TONS	32.6	12.7	60.0	
MUNICIPAL INCINERATORS	0.56	LB/TON	3.900	0.000	3.900	0.039S	0.046S	E6 TONS	32.5	12.7	14.9	
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	1.077	0.431	1.077	0.033S	0.027S	E6 TONS	35.7	11.8	9.6	
GLASS - SODA LIME	0.80	LB/TON	4.240	0.000	4.240	0.033S	0.028S	E6 TONS	34.4	11.4	9.6	
GAS TURBINE ENGINES	0.22	LB/TON	16.600	9.480	16.600	0.020S	0.270S	E6 TONS	54.1	10.8	146.	

SULFUR DIOXIDE
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES			CAPACITY/PRODUCTION		
			S	E	N	U	P	P	C	C
WOOD PULPING KRAFT	0.98	LB/TON	3.060	1.600	5.000	0.031S	0.012C	0.012C	34.0	10.5
INTERNAL COMB ENGS DIESEL DUALFUEL	0.58	LB/TON	16.800	14.300	16.800	0.020S	0.028S	0.028S	18.0	3.6
PINERAL WOOD	0.82	LB/TON	0.020	0.000	0.020	0.029S	0.020S	0.020S	8.4	2.5
PRIMARY ALUMINUM SMELTERS	0.92	LB/TON	56.100	0.000	60.000	0.035S	0.075C	0.075C	6.0	2.1
WOOD PULPING NSSC	0.98	LB/TON	143.000	20.000	143.000	0.031S	0.012C	0.012C	4.2	1.3
REFINERY FUEL GAS - SULFUR RECOVERY	0.66	LB/TON	38.400	20.000	75.000	0.030S	0.042C	0.042C	3.6	1.1
OIL AND NAT. GAS PROD-SULFUR RECOVERY	0.50	LB/TON	36.000	20.000	47.000	0.035S	0.042C	0.042C	2.3	1.0
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	5.270	4.380	5.270	0.020S	0.145S	0.145S	4.4	0.88
COPPER SMELTERS	0.85	LB/TON	2503.000	25.000	5000.000	0.036S	0.030C	0.030C	2.4	0.86
EXIST. NEW.	0.85		2443.000							
EXPLOSIVES - HIGH	0.83	LB/TON	31.000	2.480	31.000	0.045S	0.094C	0.094C	1.8	0.83
WOOD PULPING SULFITE	0.98	LB/TON	126.000	20.000	126.000	0.031S	0.012C	0.012C	2.4	0.74
FIBERGLASS MANUF - WOOD	0.70	LB/TON	6.510	0.040	6.510	0.063S	0.042C	0.042C	1.1	0.68
PRIMARY ZINC SMELTERS	0.83	LB/TON	2200.000	33.000	2200.000	0.036S	0.035C	0.035C	1.3	0.47
EXIST. NEW.	0.83		1798.000							
FIBERGLASS MANUF - TEXTILE	0.70	LB/TON	16.200	0.040	16.200	0.063S	0.122C	0.122C	0.52	0.32
PRIMARY LEAD SMELTERS	0.99	LB/TON	1320.000	19.800	1320.000	0.036S	0.000S	0.000S	0.77	0.28
EXIST. NEW.	0.85		1320.000							
EXPLOSIVES - LOW	0.83	LB/TON	65.000	5.200	65.000	0.045S	0.094C	0.094C	0.52	0.23
HYDROFLUORIC ACID	0.98	LB/TON	2.100	0.000	2.100	0.045S	0.049S	0.049S	0.45	0.20
SEC LEAD REVERTB FURN	0.68	LB/TON	202.000	2.120	212.000	0.024S	0.032C	0.032C	0.71	0.17
GLASS - OPAL	0.80	LB/TON	4.240	0.000	4.240	0.033S	0.028S	0.028S	0.46	0.15
PET REFRY PROC GAS COMB	0.85	LB/E6 CFT	2490.000	28.600	4260.000	0.031S	0.042C	0.042C	0.23	0.071
EXIST. NEW.	0.85		28.600							

SULFUR OXIDE
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR		UNITS/YR	INDUSTRY CAPACITY/PRODUCTION		
			E S	E N		P U	P C		A 1975	B 1985	C 1985
SEC LEAD - BLAST FURN											
	0.68	LB/TON	46.400	0.480	48.000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
MIXED FUEL BOILERS - OIL & REFUSE											
	0.58	LB/TON	20.500	4.100	20.500	0.000S	17.290S	E6 TONS	0.036	0.0	6.2
MIXED FUEL BOILERS - COAL & REFUSE											
	0.58	LB/TON	60.000	44.800	224.000	0.000S	17.290S	E6 TONS	0.16	0.0	27.0

SULFUR OXIDE
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS			T N 1985	TONS/YEAR T S N 1985	I - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985			
BLR >250 E6 BTU/HR								
BOILERS .3-10 MM BTU/HR	27612.	14622.	7311.	8083.	16830.	8518.	8310000.	0.873
BLR 10-250 E6 BTU/HR	3887.	2551.	1607.	1607.	3887.	2219.	1660000.	0.732
* BOILERS <.3 MM BTU/HR	6573.	5595.	2797.	2860.	5901.	3323.	2570000.	0.831
* PET REF - FCCU	525.	394.	316.	316.	525.	316.	209000.	1.000
ASPHALT BATCHING	477.	316.	218.	218.	477.	218.	259000.	1.000
COAL CLEANING	14.3	9.6	8.8	8.8	13.9	11.6	2300.	0.451
CEMENT PLANTS	67.8	30.2	15.1	26.3	35.6	25.3	10200.	0.500
SULFURIC ACID PLANTS	1352.	1006.	754.	754.	1332.	998.	334000.	0.579
COKE OVENS - BY PRODUCT	1897.	720.	396.	623.	489.	466.	23100.	0.250
* ORCHARD HEATERS	220.	200.	144.	144.	220.	219.	930.	0.012
* IRON AND STEEL - SINTERING	1.4	1.1	0.74	0.74	1.4	0.74	670.	1.000
LIME PROCESSING	121.	94.0	67.7	67.7	121.	67.7	53500.	1.000
* INDUSTRIAL COMMERCIAL INCINERATORS	27.2	16.7	8.4	8.4	27.2	17.8	9400.	0.500
* MUNICIPAL INCINERATORS	41.9	14.7	9.0	9.0	41.9	9.0	32800.	1.000
BRICK & RELATED CLAY PRODUCTS	51.8	35.5	21.6	21.6	51.8	21.6	30100.	1.000
* GLASS - SODA LIME	19.5	15.4	10.3	10.3	19.5	14.0	5500.	0.600
GAS TURBINE ENGINES ELECTRIC UTILITIES	74.7	58.4	39.1	39.1	74.7	39.1	35600.	1.000
WOOD PULPING KRAFT	366.	98.8	79.0	79.0	366.	243.	122000.	0.429
INTERNAL COMB ENGS DIESEL DUALFUEL	93.9	51.0	35.2	57.5	57.4	46.8	10600.	0.477
	112.	87.5	70.0	70.0	112.	106.	6200.	0.149

SULFUR OXIDE
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

EMISSIONS

SOURCE	1000 TONS/YEAR				TONS/YEAR			1 - E / E N S
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	T S N 1985	
* MINERAL WOOD	0.083	0.069	0.049	0.049	0.083	0.049	30.0	1.000
* PRIMARY ALUMINUM SMELTERS	341.	155.	101.	108.	319.	101.	218000.	1.000
WOOD PULPING NSSC	330.	293.	202.	202.	330.	220.	110000.	0.860
REFINERY FUEL GAS - SULFUR RECOVERY	133.	45.2	31.7	61.9	68.3	50.7	17500.	0.479
OIL AND NAT. GAS PROD-SULFUR RECOVERY	50.9	25.8	16.8	21.9	39.0	29.1	9800.	0.444
GAS TURBINE ENGINES GAS PIPELINE	24.1	9.8	7.9	7.9	24.1	21.3	2700.	0.169
COPPER SMELTERS	6854.	2553.	1634.	3264.	3388.	1652.	1730000.	0.990
EXPLOSIVES - HIGH	59.0	23.6	13.0	13.0	58.0	16.6	41400.	0.920
WOOD PULPING SULFITE	167.	148.	102.	102.	167.	113.	54400.	0.841
FIBERGLASS MANUF - WOOD	3.7	2.5	0.93	0.93	3.7	0.94	2700.	0.994
PRIMARY ZINC SMELTERS	1674.	1187.	760.	760.	1507.	773.	733000.	0.982
FIBERGLASS MANUF - TEXTILE	9.3	2.9	1.1	1.1	9.3	1.1	8100.	0.998
PRIMARY LEAD SMELTERS	458.	503.	276.	276.	458.	279.	178000.	0.985
EXPLOSIVES - LOW	34.4	14.0	7.7	7.7	34.4	9.8	24500.	0.920
* HYDROFLUORIC ACID	0.69	0.46	0.25	0.25	0.69	0.25	430.	1.000
SEC LEAD REVERTB FURN	70.4	49.0	37.2	39.1	67.1	37.5	29500.	0.990
* GLASS - SPAL	0.99	0.77	0.52	0.52	0.99	0.52	470.	1.000
PET REFRY PROB GAS COMB	0.0012	0.00	0.00	0.00	0.00	0.00	0.0	-0.000
SEC LEAD - BLAST FURN	3.3	2.3	1.8	1.8	3.2	1.8	1400.	0.990
MIXED FUEL BOILERS - OIL & REFUSE	37.2	0.21	0.21	0.21	37.2	7.6	29600.	0.800

SULFUR OXIDE
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS				TONS/YEAR T - T S H 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	
MIXED FUEL BOILERS - COAL & REFUSE	1762.	2.7	2.7	10.1	472.	0.253

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SULFUR DIOXIDE
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES			CAPACITY/PRODUCTION		INDUSTRY 0	C
			ALLOWABLE E S	EMISSION E N	UNCONT E U	P P	B	P	A		
									1975	1985	1985
BLR >250 E6 BTU/HR EXIST. NEW.	0.58 0.58	LB/E6 BTU	1.800 0.970	0.123	1.990	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
BOILERS >3-10 MM BTU/HR EXIST. NEW.	0.25 0.30	LB/E6 BTU	0.771 0.107	0.207	0.771	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
BOILERS <3 MM BTU/HR EXIST. NEW.	0.30 0.32	LB/E6 BTU	0.107 1.790 1.530	0.000 0.259	0.107 1.830	0.020S 0.050S	0.029C 0.014C	E12 BTU	24572.	4914.	8131.
PET REF - FCCU	0.32	LB/E6 BTU	1.790 1.530	0.259	1.830	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
ASFALT BATCHING EXIST. NEW.	0.85 0.47	LB/T6N	0.493 0.027 0.025	0.000 0.014	0.493 0.027	0.031S 0.008S	0.042C 0.050S	E6 TONS	1506.	467.	771.
GAS TURBINE ENGINES EXIST. NEW.	0.47 0.47	LB/T6N	0.027 0.025	0.014	0.027	0.008S	0.050S	E6 TONS	1480.	118.	740.
INDUSTRIAL COMMERCIAL INCINERATORS EXIST. NEW.	0.22 0.38	LB/T6N	16.600 2.380	9.480 0.000	16.600 2.380	0.020S 0.039S	0.270S 0.110C	E6 TONS	54.1	10.8	146.
COAL CLEANING EXIST. NEW.	0.59 0.59	LB/T6N	0.770 0.660	0.330	1.340	0.050S	0.029S	E6 TONS	133.	66.5	38.6
CEMENT PLANTS EXIST. NEW.	0.90 0.90	LB/T6N	21.700 21.000	8.840	21.700	0.025S	0.030C	E6 TONS	103.	25.8	35.4
SULFURIC ACID PLANTS EXIST. NEW.	0.84 0.84	58-A17 AS	35.000 4.000	3.000	55.000	0.045S	0.053C	E6 TONS	49.0	22.1	33.1
MIXED FUEL BOILERS - COAL & REFUSE EXIST. NEW.	0.58 0.90	LB/T6N	60.000 3.000	44.800 0.000	224.000 3.000	0.000S 0.028S	17.290S 0.029S	E6 TONS	0.16	0.0	27.0
IRON AND STEEL - SINTERING EXIST. NEW.	0.90 1.00	LB/T6N	3.000 0.037	0.000 0.000	3.000 0.037	0.028S 0.033S	0.029S 0.028S	E6 TONS	69.6	19.5	20.2
ORCHARD HEATERS EXIST. NEW.	0.90 0.90	LB/T6N	1.420 3.900	0.710 0.000	1.420 3.900	0.050S 0.039S	0.050C 0.046S	E6 TONS	60.0	19.8	16.8
LIME PROCESSING EXIST. NEW.	0.56 0.80	LB/T6N	3.900 4.240	0.000 0.000	3.900 4.240	0.039S 0.033S	0.046S 0.028S	E6 TONS	26.1	13.1	16.4
MUNICIPAL INCINERATORS EXIST. NEW.	0.56 0.80	LB/T6N	3.900 4.240	0.000 0.000	3.900 4.240	0.039S 0.033S	0.046S 0.028S	E6 TONS	32.5	12.7	14.9
GLASS - SODA LIME EXIST. NEW.	0.80 0.80	LB/T6N	4.240 1.077	0.000 0.431	4.240 1.077	0.033S 0.033S	0.028S 0.027S	E6 TONS	34.4	11.4	9.6
BRICK & RELATED CLAY PRODUCTS EXIST. NEW.	0.80 0.80	LB/T6N	1.077 1.077	0.431 0.431	1.077 1.077	0.033S 0.033S	0.027S 0.027S	E6 TONS	35.7	11.8	9.6

SULFUR OXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	EMISSION E N		P	B	P	A 1975	B 1985	
COKE OVENS - BY PRODUCT	0.93	LB/TON	5.700	5.630	5.700	0.028S	0.010S	0.010S	75.5	21.1	7.5
PRIMARY ALUMINUM SHELTERS	0.92	LB/TON	56.100	0.000	60.000	0.035S	0.075C	0.075C	6.0	2.1	6.4
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	5.270	4.380	5.270	0.020S	0.145S	0.145S	4.4	0.88	6.4
MIXED FUEL BOILERS - OIL & REFUSE	0.58	LB/TON	20.500	4.100	20.500	0.000S	17.290S	17.290S	0.036	0.0	6.2
INTERNAL COMB ENGS DIESEL DUALFUEL	0.58	LB/TON	16.800	14.300	16.800	0.020S	0.028S	0.028S	18.0	3.6	5.0
WOOD PULPING KRAFT	0.98	LB/TON	3.060	1.600	5.000	0.031S	0.012C	0.012C	34.0	10.5	4.3
EXPLOSIVES - HIGH	0.83	LB/TON	31.000	2.480	31.000	0.045S	0.094C	0.094C	1.8	0.83	2.7
REFINERY FUEL GAS - SULFUR RECOVERY	0.66	LB/TON	38.400	20.000	75.000	0.030S	0.042C	0.042C	3.6	1.1	1.8
MINERAL WOOL	0.82	LB/TON	0.020	0.000	0.020	0.029S	0.020S	0.020S	8.4	2.5	1.7
OIL AND NAT. GAS PRGD-SULFUR RECOVERY	0.50	LB/TON	36.000	20.000	47.000	0.035S	0.042C	0.042C	2.9	1.0	1.5
FIBERGLASS MANUF - TEXTILE	0.70	LB/TON	16.200	0.040	16.200	0.063S	0.122C	0.122C	0.52	0.32	1.1
COPPER SHELTERS	0.85	LB/TON	2503.000	25.000	5000.000	0.036S	0.030C	0.030C	2.4	0.86	0.83
EXIST. NEW.	0.85		2443.000								
EXPLOSIVES - LOW	0.83	LB/TON	65.000	5.200	65.000	0.045S	0.094C	0.094C	0.52	0.23	0.76
FIBERGLASS MANUF - WOOL	0.70	LB/TON	6.510	0.040	6.510	0.063S	0.042C	0.042C	1.1	0.48	0.55
PRIMARY ZINC SHELTERS	0.83	LB/TON	2200.000	33.000	2200.000	0.036S	0.035C	0.035C	1.3	0.47	0.53
EXIST. NEW.	0.83		1798.000								
WOOD PULPING NSSC	0.98	LB/TON	143.000	20.000	143.000	0.031S	0.012C	0.012C	4.2	1.3	0.53
WOOD PULPING SULFITE	0.98	LB/TON	126.000	20.000	126.000	0.031S	0.012C	0.012C	2.4	0.74	0.30
SEC LEAD REVERTB FURN	0.68	LB/TON	202.000	2.120	212.000	0.024S	0.032C	0.032C	0.71	0.17	0.26
HYDROFLUORIC ACID	0.98	LB/TON	2.100	0.000	2.100	0.045S	0.049S	0.049S	0.45	0.20	0.22
GLASS - OPAL	0.80	LB/TON	4.240	0.000	4.240	0.033S	0.028S	0.028S	0.46	0.15	0.13

SULFUR DIOXIDE
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	E N		P	B	C	A 1975	B 1985	
PET REFINRY PROC GAS COMB											
EXIST•	0.85	LB/E6 CFT	2490.000	28.600	5260.000	0.031S	0.042C	0.042C	0.23	0.071	0.12
NEW•	0.35		28.600								
SEC LEAD - BLAST FURN											
EXIST•	0.68	LB/TON	46.600	0.480	48.000	0.024S	0.032C	0.032C	0.15	0.036	0.055
NEW•	0.99										
PRIMARY LEAD SMELTERS											
EXIST•	0.85	LB/TON	1320.000	19.800	1320.000	0.036S	0.000S	0.000S	0.77	0.28	0.0
NEW•			1320.000								

SULFUR OXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					T N 1985	T S 1985	T N 1985	TENS/YEAR T-T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985					
BLR >250 E6 BTU/HR	27612.	14622.	7311.	8083.	16830.	8518.	8310000.	0.873		
BOILERS .3-10 MM BTU/HR	3887.	2551.	1607.	1607.	3887.	2219.	1660000.	0.732		
* BOILERS <.3 MM BTU/HR	525.	394.	316.	316.	525.	316.	2090000.	1.000		
BLR 10-250 E6 BTU/HR	6573.	5595.	2797.	2860.	5901.	3323.	2570000.	0.831		
* PET REF - FCCU	477.	316.	218.	218.	477.	218.	2590000.	1.000		
ASPHALT BATCHING	14.3	9.6	8.8	8.8	13.9	11.6	2300.	0.451		
GAS TURBINE ENGINES	366.	98.8	79.0	79.0	366.	243.	122000.	0.429		
* INDUSTRIAL COMMERCIAL INCINERATORS	41.9	14.7	9.0	9.0	41.9	9.0	32800.	1.000		
COAL CLEANING	67.8	30.2	15.1	26.3	35.6	25.3	10200.	0.500		
CEMENT PLANTS	1352.	1006.	754.	754.	1332.	998.	334000.	0.579		
SULFURIC ACID PLANTS	1897.	720.	396.	623.	489.	466.	23100.	0.250		
MIXED FUEL BOILERS - COAL & REFUSE	1762.	2.7	2.7	10.1	472.	353.	118000.	0.253		
* IRON AND STEEL - SINTERING	121.	94.0	67.7	67.7	121.	67.7	53500.	1.000		
* ORCHARD HEATERS	1.4	1.1	0.74	0.74	1.4	0.74	670.	1.000		
LIME PROCESSING	27.2	16.7	8.4	8.4	27.2	17.8	9400.	0.500		
* MUNICIPAL INCINERATORS	51.8	35.5	21.6	21.6	51.8	21.6	30100.	1.000		
* GLASS - SODA LIME	74.7	58.4	39.1	39.1	74.7	39.1	35600.	1.000		
BRICK & RELATED CLAY PRODUCTS	19.5	15.4	10.3	10.3	19.5	14.0	5500.	0.600		
COKE OVENS - BY PRODUCT	220.	200.	144.	144.	220.	219.	930.	0.012		
* PRIMARY ALUMINUM SMELTERS	341.	155.	101.	108.	319.	101.	218000.	1.000		

SULFUR OXIDE
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS						TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
GAS TURBINE ENGINES GAS PIPELINE	24.1	9.8	7.9	7.9	24.1	21.3	2700.	0.169
MIXED FUEL BOILERS - OIL & REFUSE	37.2	0.21	0.21	0.21	37.2	7.6	25600.	0.800
INTERNAL COMB ENGS DIESEL DUALFUEL	112.	87.5	70.0	70.0	112.	106.	6200.	0.149
WOOD PULPING KRAFT	93.9	51.0	35.2	57.5	57.4	46.8	10600.	0.477
EXPLOSIVES - HIGH	58.0	23.6	13.0	13.0	58.0	16.6	41400.	0.920
REFINERY FUEL GAS - SULFUR RECOVERY	133.	45.2	31.7	61.9	68.3	50.7	17500.	0.479
* MINERAL WOOL	0.083	0.069	0.049	0.049	0.083	0.049	30.0	1.000
OIL AND NAT. GAS PROD-SULFUR RECOVERY	50.9	25.8	16.8	21.9	39.0	29.1	9800.	0.444
FIBERGLASS MANUF - TEXTILE	9.3	2.9	1.1	1.1	9.3	1.1	8100.	0.998
COPPER SMELTERS	685.	2553.	1634.	324.	3368.	1652.	1730000.	0.990
EXPLOSIVES - LOW	34.4	14.0	7.7	7.7	34.4	9.8	24500.	0.920
FIBERGLASS MANUF - WOOL	3.7	2.5	0.93	0.93	3.7	0.94	2700.	0.994
PRIMARY ZINC SMELTERS	1674.	1187.	760.	760.	1507.	773.	733000.	0.982
WOOD PULPING NSSC	330.	293.	202.	202.	330.	220.	110000.	0.860
WOOD PULPING SULFITE	167.	148.	102.	102.	167.	113.	54400.	0.841
SEC LEAD REVERTB FURN	70.4	49.0	37.2	39.1	67.1	37.5	29500.	0.990
* HYDROFLUORIC ACID	0.69	0.46	0.25	0.25	0.69	0.25	430.	1.000
* GLASS - OPAL	0.99	0.77	0.52	0.52	0.99	0.52	470.	1.000
RET P/RY PRGC GAS COMB	0.0012	0.00	0.00	0.00	0.00	0.00	0.0	-0.000
SEC LEAD - BLAST FURN	3.3	2.3	1.8	1.8	3.2	1.8	1400.	0.990

SULFUR OXIDE
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS				
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985
PRIMARY LEAD SMELTERS	458.	503.	276.	276.	279.
					TONS/YEAR T S N 1985
					178000.
					I - E / E N S
					0.985

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N

SULFUR OXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION ALLOWABLE E S	EMISSION RATES			GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
				E N	U	P B C				A 1975	B 1985	C 1985
FIXED FUEL BOILERS - COAL & REFUSE												
0.58		LB/TON	60.000	44.800	224.000	0.0005	17.290S	E6 TONS	0.16	0.0	0.0	27.0
PRIMARY ZINC SMELTERS												
EXIST. 0.83		LB/TON	2200.000	33.000	2200.000	0.036S	0.035C	E6 TONS	1.3	0.47	0.47	0.53
NEW 0.83			1798.000									
PET REFINRY PROC GAS COMB												
EXIST. 0.85		LB/E6 CFT	2490.000	28.600	8260.000	0.031S	0.042C	E12 BTU	0.23	0.071	0.071	0.12
NEW 0.85			28.600									
COPPER SMELTERS												
EXIST. 0.85		LB/TON	2503.000	25.000	5000.000	0.036S	0.030C	E6 TONS	2.4	0.86	0.86	0.83
NEW 0.85			2443.000									
OIL AND NAT. GAS PROD-SULFUR RECOVERY												
0.50		LB/TON	36.000	20.000	47.000	0.035S	0.042C	E6 TONS	2.9	1.0	1.0	1.5
REFINERY FUEL GAS - SULFUR RECOVERY												
0.66		LB/TON	38.400	20.000	75.000	0.030S	0.042C	E6 TONS	3.6	1.1	1.1	1.8
WOOD PULPING NSSC												
0.98		LB/TON	143.000	20.000	143.000	0.031S	0.012C	E6 TONS	4.2	1.3	1.3	0.53
WOOD PULPING SULFITE												
0.98		LB/TON	126.000	20.000	126.000	0.031S	0.012C	E6 TONS	2.4	0.74	0.74	0.30
PRIMARY LEAD SMELTERS												
EXIST. 0.99		LB/TON	1320.000	19.800	1320.000	0.036S	0.000S	E6 TONS	0.77	0.28	0.28	0.0
NEW 0.85			1320.000									
INTERNAL COMB ENGS DIESEL DUALFUEL												
0.58		LB/TON	16.800	14.300	16.800	0.020S	0.028S	E6 TONS	18.0	3.6	3.6	5.0
GAS TURBINE ENGINES ELECTRIC UTILITIES												
0.22		LB/TON	16.600	9.480	16.600	0.020S	0.270S	E6 TONS	54.1	10.8	10.8	146.
CEMENT PLANTS												
EXIST. 0.90		LB/TON	21.700	8.840	21.700	0.025S	0.030C	E6 TONS	103.	25.8	25.8	35.4
NEW 0.90			21.000									
COKE OVENS - BY PRODUCT												
0.93		LB/TON	5.700	5.630	5.700	0.028S	0.010S	E6 TONS	75.5	21.1	21.1	7.5
EXPLOSIVES - LOW												
0.83		LB/TON	65.000	5.200	65.000	0.045S	0.094C	E6 TONS	0.52	0.23	0.23	0.76
GAS TURBINE ENGINES GAS PIPELINE												
0.85		LB/TON	5.270	4.380	5.270	0.020S	0.145S	E6 TONS	4.4	0.88	0.88	6.4
FIXED FUEL BOILERS - OIL & REFUSE												
0.58		LB/TON	20.500	4.100	20.500	0.000S	17.290S	E6 TONS	0.036	0.0	0.0	6.2
SULFURIC ACID PLANTS												
EXIST. 0.84		58-A17 AS	35.000	3.000	55.000	0.045S	0.053C	E6 TONS	49.0	22.1	22.1	33.1
NEW 0.84			4.000									
EXPLOSIVES - HIGH												
0.83		LB/TON	31.000	2.480	31.000	0.045S	0.094C	E6 TONS	1.8	0.83	0.83	2.7

SULFUR DIOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCENT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			ALLOWABLE E	EMISSION E		N	P	B	1975	A	1985
SEC LEAD REVERTER FURN		LB/TON	202.000	2.120	212.000	0.0245	0.032C	0.17	0.71	0.17	0.26
L39D PULPING KRAFT	0.68	LB/TON	3.060	1.600	5.000	0.031S	0.012C	10.5	34.0	10.5	4.3
LINE PROCESSING	0.98	LB/TON	1.420	0.710	1.420	0.050S	0.050C	13.1	26.1	13.1	16.4
SEC LEAD - BLAST FURN	0.90	LB/TON	46.600	0.480	48.000	0.024S	0.032C	0.036	0.15	0.036	0.055
BRICK & RELATED CLAY PRODUCTS	0.68	LB/TON	1.077	0.431	1.077	0.033S	0.027S	11.8	35.7	11.8	9.6
CBAL CLEANING	0.80	LB/TON	0.770	0.330	1.340	0.050S	0.029S	66.5	133.	66.5	38.6
EXIST. NEW.	0.59	LB/TON	0.660	0.259	1.830	0.050S	0.014C	2914.	19534.	9767.	2914.
BLR 10-250 E6 BTU/HR	0.59	LB/E6 BTU	1.790	0.207	0.771	0.037S	0.043C	9794.	26471.	9794.	13857.
EXIST. NEW.	0.32	LB/E6 BTU	1.530	0.123	1.990	0.050S	0.055C	14006.	28011.	14006.	19836.
BOILERS 3-10 MH BTU/HR	0.32	LB/E6 BTU	0.771	0.040	6.510	0.063S	0.042C	0.68	1.1	0.68	0.55
BLR >250 E6 BTU/HR	0.25	LB/E6 BTU	1.800	0.040	16.200	0.063S	0.122C	0.32	0.52	0.32	1.1
EXIST. NEW.	0.58	LB/E6 BTU	0.970	0.014	0.027	0.008S	0.050S	118.	1480.	118.	740.
FIBERGLASS MANUF - W00L	0.58	LB/TON	6.510	0.000	3.000	0.028S	0.029S	19.5	69.6	19.5	20.2
FIBERGLASS MANUF - TEXTILE	0.70	LB/TON	16.200	0.000	4.240	0.033S	0.028S	11.4	34.4	11.4	9.6
ASPHALT BATCHING	0.47	LB/TON	0.027	0.000	3.900	0.039S	0.046S	12.7	32.5	12.7	14.9
EXIST. NEW.	0.47	LB/TON	0.025	0.000	0.037	0.033S	0.028S	0.15	0.46	0.15	0.13
IRON AND STEEL - SINTERING	0.90	LB/TON	3.000	0.000	4.240	0.033S	0.028S	0.15	0.46	0.15	0.13
GLASS - SODA LIME	0.80	LB/TON	4.240	0.000	0.020	0.029S	0.020S	2.5	8.4	2.5	1.7
MUNICIPAL INCINERATORS	0.56	LB/TON	3.900	0.000	0.493	0.031S	0.042C	467.	1506.	467.	771.
ORCHARD HEATERS	1.00	LB/TON	0.037	0.000	0.493	0.031S	0.042C	467.	1506.	467.	771.
GLASS - BPAL	0.80	LB/TON	4.240	0.000	0.493	0.031S	0.042C	467.	1506.	467.	771.
PINERAL W06L	0.82	LB/TON	0.020	0.000	0.493	0.031S	0.042C	467.	1506.	467.	771.
PET REF - FCCU	0.85	LB/TON	0.493	0.000	0.493	0.031S	0.042C	467.	1506.	467.	771.

SULFUR DIOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE		UNCONT		GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			E S	N	E U	P B	P C	UNITS/YR	A 1975	B 1985	C 1985	
PRIMARY ALUMINUM SHELTERS												
BOILERS <.3 MM BTJ/HR	0.92	LB/TON	56.100	0.000	60.000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4	
	0.30	LB/E6 BTU	0.107	0.000	0.107	0.020S	0.029C	E12 BTU	24572.	4914.	8131.	
INDUSTRIAL COMMERCIAL INCINERATORS												
HYDROFLUORIC ACID	0.38	LB/TON	2.380	0.000	2.380	0.039S	0.110C	E6 TONS	32.6	12.7	60.0	
	0.98	LB/TON	2.100	0.000	2.100	0.045S	0.049S	E6 TONS	0.45	0.20	0.22	

SULFUR OXIDE
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS				TONS/YEAR		I - E / E N S
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T S 1985	
MIXED FUEL BOILERS - COAL & REFUSE	1762.	2.7	2.7	10.1	472.	353.	0.253
PRIMARY ZINC SMELTERS	1674.	1187.	760.	760.	1507.	773.	0.982
PET REFINRY PROC GAS CONR	0.0012	0.	0.	0.	0.	0.	-0.000
COPPER SMELTERS	6854.	2553.	1634.	3264.	3388.	1652.	0.990
OIL AND NAT. GAS, PROD-SULFUR RECOVERY	50.9	25.8	16.8	21.9	39.0	29.1	0.444
REFINERY FUEL GAS - SULFUR RECOVERY	133.	45.2	31.7	61.9	68.3	50.7	0.479
WOOD PULPING NSSC	330.	293.	202.	202.	330.	220.	0.860
WOOD PULPING SULFITE	167.	148.	102.	102.	167.	113.	0.841
PRIMARY LEAD SMELTERS	458.	503.	276.	276.	458.	279.	0.985
INTERNAL COMB ENGS DIESEL DUALFUEL	112.	87.5	70.0	70.0	112.	106.	0.149
GAS TURBINE ENGINES ELECTRIC UTILITIES	366.	98.8	79.0	79.0	366.	243.	0.429
CEMENT PLANTS	1352.	1006.	754.	754.	1332.	998.	0.579
COKE OVENS - BY PRODUCT	220.	200.	144.	144.	220.	219.	0.012
EXPLOSIVES - LOW	34.4	14.0	7.7	7.7	34.4	9.8	0.920
GAS TURBINE ENGINES GAS PIPELINE	24.1	9.8	7.9	7.9	24.1	21.3	0.169
MIXED FUEL BOILERS - OIL & REFUSE	37.2	0.21	0.21	0.21	37.2	7.6	0.800
SULFURIC ACID PLANTS	1897.	720.	396.	623.	489.	466.	0.250
EXPLOSIVES - HIGH	58.0	23.6	13.0	13.0	58.0	16.6	0.920
SEC LEAD REVERTB FURN	70.4	49.0	37.2	39.1	67.1	37.5	0.990
WOOD PULPING KRAFT	93.9	51.0	35.2	57.5	57.4	46.8	0.477

SULFUR OXIDE
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS						TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
LIME PROCESSING	27.2	16.7	8.4	8.4	27.2	17.8	9400.	0.500
SEC LEAD - BLAST FURN	3.3	2.3	1.8	1.8	3.2	1.8	1400.	0.990
BRICK & RELATED CLAY PRODUCTS	19.5	15.4	10.3	10.3	19.5	14.0	5500.	0.600
COAL CLEANING	67.8	30.2	15.1	26.3	35.6	25.3	10200.	0.500
BLR 10-250 E6 BTU/HR	6573.	5595.	2797.	2860.	5901.	3323.	2570000.	0.831
BOILERS <3-10 MM BTU/HR	3887.	2551.	1607.	1607.	3887.	2219.	1660000.	0.732
BLR >250 E6 BTU/HR	27612.	14622.	7311.	8083.	16830.	8518.	8310000.	0.873
FIBERGLASS MANUF - WOOL	3.7	2.5	0.93	0.93	3.7	0.94	2700.	0.994
FIBERGLASS MANUF - TEXTILE	9.3	2.9	1.1	1.1	9.3	1.1	8100.	0.998
ASPHALT BATCHING	14.3	9.6	8.8	8.8	13.9	11.6	2300.	0.451
* IRON AND STEEL - SINTERING	121.	94.0	67.7	67.7	121.	67.7	53500.	1.000
* GLASS - SODA LIME	74.7	58.4	39.1	39.1	74.7	39.1	35600.	1.000
* MUNICIPAL INCINERATORS	51.8	35.5	21.6	21.6	51.8	21.6	30100.	1.000
* ORCHARD HEATERS	1.4	1.1	0.74	0.74	1.4	0.74	670.	1.000
* GLASS - OPAL	0.99	0.77	0.52	0.52	0.99	0.52	470.	1.000
* MINERAL WOOL	0.083	0.069	0.049	0.049	0.083	0.049	30.0	1.000
* PET REF - FCCU	477.	316.	218.	218.	477.	218.	259000.	1.000
* PRIMARY ALUMINUM SMELTERS	341.	155.	101.	108.	319.	101.	218000.	1.000
* BOILERS <0.3 MM BTU/HR	525.	394.	316.	316.	525.	316.	209000.	1.000
* INDUSTRIAL COMMERCIAL INCINERATORS	41.9	14.7	9.0	9.0	41.9	9.0	32800.	1.000

SULFUR OXIDE
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T-S-N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985	
• HYDROFLUORIC ACID	0.69	0.16	0.25	0.25	0.69	0.25	1.000
						430.	

E_s (Existing)

SULFUR DIOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			ALLOWABLE E S	E N	U	P B	C	UNITS/YR	A 1975	B 1985	C 1985
GAS TURBINE ENGINES ELECTRIC UTILITIES											
0.22 LB/TON			16.600	9.480	16.600	0.020S	0.270S	E6 TONS	54.1	10.8	146.
FIBERGLASS MANUF - TEXTILE											
0.70 LB/TON			16.200	0.040	16.200	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
FIBERGLASS MANUF - W09L											
0.70 LB/TON			6.510	0.040	6.510	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
COKE OVENS - BY PRODUCT											
0.93 LB/TON			5.700	5.630	5.700	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
GAS TURBINE ENGINES GAS PIPELINE											
0.85 LB/TON			5.270	4.380	5.270	0.020S	0.145S	E6 TONS	4.4	0.88	6.4
GLASS - SODA LIME											
0.80 LB/TON			4.240	0.000	4.240	0.033S	0.028S	E6 TONS	34.4	11.4	9.6
GLASS - 0PAL											
0.80 LB/TON			4.240	0.000	4.240	0.033S	0.028S	E6 TONS	0.46	0.15	0.13
MUNICIPAL INCINERATORS											
0.56 LB/TON			3.900	0.000	3.900	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
P00D PULPING KRAFT											
0.98 LB/TON			3.060	1.600	5.000	0.031S	0.012C	E6 TONS	34.0	10.5	4.3
IRON AND STEEL - SINTERING											
0.90 LB/TON			3.000	0.000	3.000	0.023S	0.029S	E6 TONS	69.6	19.5	20.2
INDUSTRIAL COMMERCIAL INCINERATORS											
0.38 LB/TON			2.380	0.000	2.380	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
HYDROFLUORIC ACID											
0.98 LB/TON			2.100	0.000	2.100	0.045S	0.049S	E6 TONS	0.45	0.20	0.22
BLR >250 E6 BTU/HR											
EXIST. 0.5X NEW 0.5A			1.800 0.970	0.123	1.990	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
BLR 10-250 E6 BTU/HR											
EXIST. 0.32 NEW 0.32			1.790 1.530	0.259	1.830	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
LIME PROCESSING											
0.90 LB/TON			1.420	0.710	1.420	0.050S	0.050C	E6 TONS	26.1	13.1	16.4
BRICK & RELATED CLAY PRODUCTS											
0.80 LB/TON			1.077	0.431	1.077	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
BOILERS >3-10 MM BTU/HR											
0.25 LB/E6 BTU			0.771	0.207	0.771	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
COAL CLEANING											
EXIST. 0.59 NEW 0.59			0.770 0.660	0.330	1.340	0.050S	0.029S	E6 TONS	133.	66.5	38.6
PET REF - FCCU											
0.85 LB/TON			0.493	0.000	0.493	0.031S	0.042C	E6 TONS	1506.	467.	771.
BOILERS <3 MM BTU/HR											
0.30 LB/E6 BTU			0.107	0.000	0.107	0.020S	0.029C	E12 BTU	24572.	4914.	8131.

SULFUR DIOXIDE
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE		UNCERT E	GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
			S	N		P	B	C	A	B	C
					U				1975	1985	1985
								UNITS/YR			
BRICK AND HEATERS	1.00	LB/TON	0.037	0.000	0.037	0.033S	0.028S	E6 TONS	60.0	19.8	16.8
ASPHALT BATCHING											
EXIST.	0.47	LB/TON	0.027	0.014	0.027	0.008S	0.050S	E6 TONS	1480.	118.	740.
NEW	0.47		0.025								
MINERAL WOOL	0.82	LB/TON	0.020	0.000	0.020	0.029S	0.020S	E6 TONS	8.4	2.5	1.7

SULFUR DIOXIDE
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS							TNS/YEAR T-T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TNS/YEAR T UE 1985	T S 1985	T N 1985			
COPPER SHELTERS	6854.	2553.	1634.	3264.	3388.	1652.	1730000.	0.990	
PET REFINRY PROD GAS COMB	0.0012	0.	0.	0.	0.	0.	0.0	-0.000	
PRIMARY ZINC SHELTERS	1674.	1187.	760.	760.	1507.	773.	733000.	0.982	
PRIMARY LEAD SHELTERS	458.	503.	276.	276.	458.	279.	178000.	0.985	
SEC LEAD REVERTER FURN	704	49.0	37.2	39.1	67.1	37.5	29500.	0.990	
WOOD PULPING NSSC	330.	293.	202.	202.	330.	220.	110000.	0.860	
WOOD PULPING SULFITE	167.	148.	102.	102.	167.	113.	54400.	0.841	
EXPLOSIVES - LOW	344	14.0	7.7	7.7	344	9.8	24500.	0.920	
MIXED FUEL BOILERS - COAL & REFUSE	1762.	2.7	2.7	10.1	472.	353.	118000.	0.253	
PRIMARY ALUMINUM SHELTERS	341.	155.	101.	108.	319.	101.	218000.	1.000	
SEC LEAD - BLAST FURN	3.3	2.3	1.8	1.8	3.2	1.8	1400.	0.990	
REFINERY FUEL GAS - SULFUR RECOVERY	133.	45.2	31.7	61.9	68.3	50.7	17500.	0.479	
OIL AND NAT. GAS PROD-SULFUR RECOVERY	50.9	25.8	16.8	21.9	39.0	29.1	9800.	0.444	
SULFURIC ACID PLANTS	1897.	720.	396.	623.	489.	466.	23100.	0.250	
EXPLOSIVES - HIGH	58.0	23.6	13.0	13.0	58.0	16.6	41400.	0.920	
CEMENT PLANTS	1352.	1006.	754.	754.	1332.	998.	334000.	0.579	
MIXED FUEL BOILERS - OIL & REFUSE	37.2	0.21	0.21	0.21	37.2	7.6	29600.	0.800	
INTERNAL COMB ENGS DIESEL DUALFUEL	112.	87.5	70.0	70.0	112.	106.	6200.	0.149	
GAS TURBINE ENGINES ELECTRIC UTILITIES	366.	98.8	79.0	79.0	366.	243.	122000.	0.429	
FIBERGLASS MANUF - TEXTILE	9.3	2.9	1.1	1.1	9.3	1.1	8100.	0.998	

* 1985

SULFUR DIOXIDE
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS						TONS/YEAR T-S-N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
FIBERGLASS MANUF - WOOD	3.7	2.5	0.93	0.93	3.7	0.94	2700.	0.994
COKE OVENS - BY PRODUCT	220.	200.	144.	144.	220.	219.	930.	0.012
GAS TURBINE ENGINES GAS PIPELINE	24.1	9.8	7.9	7.9	24.1	21.3	2700.	0.169
* GLASS - SODA LIME	74.7	58.4	39.1	39.1	74.7	39.1	35600.	1.000
* GLASS - OPAL	0.99	0.77	0.52	0.52	0.99	0.52	470.	1.000
* MUNICIPAL INCINERATORS	51.8	35.5	21.6	21.6	51.8	21.6	30100.	1.000
WOOD PULPING KRAFT	93.9	51.0	35.2	57.5	57.4	46.8	10600.	0.477
* IRON AND STEEL - SINTERING	121.	94.0	67.7	67.7	121.	67.7	53500.	1.000
* INDUSTRIAL COMMERCIAL INCINERATORS	41.9	14.7	9.0	9.0	41.9	9.0	32800.	1.000
* HYDROFLUORIC ACID	0.69	0.46	0.25	0.25	0.69	0.25	430.	1.000
BLR >250 E6 BTU/HR	27612.	14622.	7311.	8083.	16830.	8518.	8310000.	0.873
BLR 10-250 E6 BTU/HR	6573.	5595.	2797.	2860.	5901.	3323.	2570000.	0.831
LIME PROCESSING	27.2	16.7	8.4	8.4	27.2	17.8	9400.	0.500
BRICK & RELATED CLAY PRODUCTS	19.5	15.4	10.3	10.3	19.5	14.0	5300.	0.600
BOILERS <3-10 MM BTU/HR	3887.	2551.	1607.	1607.	3887.	2219.	1660000.	0.732
COAL CLEANING	67.8	30.2	15.1	26.3	35.6	25.3	10200.	0.500
* PET REF - FCCU	477.	316.	218.	218.	477.	218.	259000.	1.000
* BOILERS <0.3 MM BTU/HR	525.	394.	316.	316.	525.	316.	209000.	1.000
* BRICKARD HEATERS	1.4	1.1	0.74	0.74	1.4	0.74	670.	1.000
ASPHALT BATCHING	14.3	9.6	8.8	8.8	13.9	11.6	2300.	0.451

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

• MINERAL WOOL

E_S (New)

SULFUR DIOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR		UNITS/YR	CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E	EMISSIBLE N		P	B		A 1975	B 1985	
COPPER SHELTERS											
EXIST.	0.85	LB/TON	2503.000	25.000	5000.000	0.036S	0.030C	E6 TONS	2.4	0.86	0.83
NEW	0.85		2443.000								
PRIMARY ZINC SHELTERS											
EXIST.	0.83	LB/TON	2200.000	33.000	2200.000	0.036S	0.035C	E6 TONS	1.3	0.47	0.53
NEW	0.83		1798.000								
PET REFINERY PROCESS GAS COMB											
EXIST.	0.85	LB/E6 CFT	2490.000	38.600	8260.000	0.031S	0.042C	E12 BTU	0.23	0.071	0.12
NEW	0.85		28.600								
CEMENT PLANTS											
EXIST.	0.90	LB/TON	21.700	8.840	21.700	0.025S	0.030C	E6 TONS	103.	25.8	35.4
NEW	0.90		21.000								
SULFURIC ACID PLANTS											
EXIST.	0.84	58-A17 AS	35.000	3.000	55.000	0.045S	0.053C	E6 TONS	49.0	22.1	33.1
NEW	0.84		4.000								
BLR 10-250 E6 BTU/HR											
EXIST.	0.32	LB/E6 BTU	1.790	0.259	1.830	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
NEW	0.32		1.530								
PLR >250 E6 BTU/HR											
EXIST.	0.58	LB/E6 BTU	1.800	0.123	1.990	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
NEW	0.58		0.970								
COAL CLEANING											
EXIST.	0.59	LB/TON	0.770	0.330	1.340	0.050S	0.029S	E6 TONS	133.	66.5	38.6
NEW	0.59		0.660								
ASPHALT BATCHING											
EXIST.	0.47	LB/TON	0.027	0.014	0.027	0.008S	0.050S	E6 TONS	1480.	118.	740.
NEW	0.47		0.025								

E
C

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

[illegible]

SULFUR OXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION ALLOWABLE E _S	EMISSION RATES		UNCNT E _U	GROWTH RATES DECIMAL/YR		UNITS/YR	CAPACITY/PRODUCTION		
				E _N	E _U		P _B	P _C		A 1975	B 1985	C 1985
GAS TURBINE ENGINES	0.22	LB/TON	16.600	9.480	16.600	0.020S	0.270S	E6 TONS	54.1	10.8	146.	
FIBERGLASS MANUF - TEXTILE	0.70	LB/TON	16.200	0.040	16.200	0.063S	0.122C	E6 TONS	0.52	0.32	1.1	
FIBERGLASS MANUF - W08L	0.70	LB/TON	6.510	0.040	6.510	0.063S	0.042C	E6 TONS	1.1	0.68	0.55	
COKE OVENS - BY PRODUCT	0.93	LB/TON	5.700	5.630	5.700	0.028S	0.010S	E6 TONS	75.5	21.1	7.5	
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	5.270	4.380	5.270	0.020S	0.145S	E6 TONS	4.4	0.88	6.4	
WOOD PULPING KRAFT	0.98	LB/TON	3.060	1.600	5.000	0.031S	0.012C	E6 TONS	34.0	10.5	4.3	
GLASS - 0PAL	0.80	LB/TON	4.240	0.000	4.240	0.033S	0.028S	E6 TONS	0.46	0.15	0.13	
GLASS - SODA LINE	0.80	LB/TON	4.240	0.000	4.240	0.033S	0.028S	E6 TONS	34.4	11.4	9.6	
MUNICIPAL INCINERATORS	0.56	LB/TON	3.900	0.000	3.900	0.039S	0.046S	E6 TONS	32.5	12.7	14.9	
IRON AND STEEL - SINTERING	0.90	LB/TON	3.000	0.000	3.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2	
INDUSTRIAL COMMERCIAL INCINERATORS	0.38	LB/TON	2.380	0.000	2.380	0.039S	0.110C	E6 TONS	32.6	12.7	60.0	
HYDROFLUORIC ACID	0.98	LB/TON	2.100	0.000	2.100	0.045S	0.049S	E6 TONS	0.45	0.20	0.22	
BLR >250 E6 BTU/HR EXIST. NEW=	0.58 0.58	LB/E6 BTU	1.800 0.970	0.123	1.990	0.050S	0.055C	E12 BTU	28011.	14006.	19836.	
BLR 10-250 E6 BTU/HR EXIST. NEW=	0.32 0.32	LB/E6 BTU	1.790 1.530	0.259	1.830	0.050S	0.014C	E12 BTU	19534.	9767.	2914.	
LIME PROCESSING	0.90	LB/TON	1.420	0.710	1.420	0.050S	0.050C	E6 TONS	26.1	13.1	16.4	
COAL CLEANING EXIST. NEW=	0.59 0.59	LB/TON	0.770 0.660	0.330	1.340	0.050S	0.029S	E6 TONS	133.	66.5	38.6	
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	1.077	0.431	1.077	0.033S	0.027S	E6 TONS	35.7	11.8	9.6	
BOILERS >3-10 MM BTU/HR	0.25	LB/E6 BTU	0.771	0.207	0.771	0.037S	0.043C	E12 BTU	26471.	9794.	13857.	
PET REF - FCCU	0.85	LB/TON	0.493	0.000	0.493	0.031S	0.042C	E6 TONS	1506.	467.	771.	
BOILERS <.3 MM BTU/HR	0.30	LB/E6 BTU	0.107	0.000	0.107	0.020S	0.029C	E12 BTU	24572.	4914.	8131.	

SULFUR OXIDE
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E U	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	E N		P B	P C	UNITS/YR	A 1975	B 1985	
BRICK AND HEATERS	1.00	LB/TON	0.037	0.000	0.037	0.033S	0.028S	E6 TONS	60.0	19.8	16.8
ASPHALT BATCHING	0.47	LB/TON	0.027	0.014	0.027	0.008S	0.050S	E6 TONS	1480.	118.	740.
EXIST- NEW- PINERAL W00L	0.47		0.025								
	0.82	LB/TON	0.020	0.000	0.020	0.029S	0.020S	E6 TONS	8.4	2.5	1.7

SULFUR OXIDE
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					T N 1985	T S 1985	T N 1985	T S 1985	T N 1985	T S 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985							
PET REFINRY PROC GAS COND	0.0012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.000
COPPER SMELTERS	6854.	2553.	1634.	3264.	3388.	1652.	3388.	1652.	3388.	1730000.	0.990	0.990
PRIMARY ZINC SMELTERS	1674.	1187.	760.	760.	1507.	773.	1507.	773.	733000.	0.982	0.982	0.982
PRIMARY LEAD SMELTERS	458.	503.	276.	276.	458.	279.	458.	279.	178000.	0.985	0.985	0.985
MIXED FUEL BOILERS - COAL & REFUSE	1762.	2.7	2.7	10.1	472.	353.	472.	353.	118000.	0.253	0.253	0.253
SEC LEAD REVERTB FURN	70.4	49.0	37.2	39.1	67.1	37.5	67.1	37.5	29500.	0.990	0.990	0.990
WOOD PULPING NSSC	330.	293.	202.	202.	330.	220.	330.	220.	110000.	0.860	0.860	0.860
WOOD PULPING SULFITE	167.	148.	102.	102.	167.	113.	167.	113.	54400.	0.841	0.841	0.841
REFINERY FUEL GAS - SULFUR RECOVERY	133.	45.2	31.7	61.9	68.3	50.7	68.3	50.7	17500.	0.479	0.479	0.479
EXPLOSIVES - LOW	34.4	14.0	7.7	7.7	34.4	9.8	34.4	9.8	24500.	0.920	0.920	0.920
• PRIMARY ALUMINUM SMELTERS	341.	155.	101.	108.	319.	101.	319.	101.	218000.	1.000	1.000	1.000
SULFURIC ACID PLANTS	1897.	720.	396.	623.	489.	466.	489.	466.	23100.	0.250	0.250	0.250
SEC LEAD - BLAST FURN	3.3	2.3	1.8	1.8	3.2	1.8	3.2	1.8	1400.	0.990	0.990	0.990
OIL AND NAT. GAS PROD-SULFUR RECOVERY	50.9	25.8	16.8	21.9	39.0	29.1	39.0	29.1	9800.	0.444	0.444	0.444
EXPLOSIVES - HIGH	58.0	23.6	13.0	13.0	58.0	16.6	58.0	16.6	41400.	0.920	0.920	0.920
CEMENT PLANTS	1352.	1006.	754.	754.	1332.	998.	1332.	998.	334000.	0.579	0.579	0.579
MIXED FUEL BOILERS - OIL & REFUSE	37.2	0.21	0.21	0.21	37.2	7.6	37.2	7.6	29600.	0.800	0.800	0.800
INTERNAL COMB ENGS DIESEL DUALFUEL	112.	87.5	70.0	70.0	112.	106.	112.	106.	6200.	0.149	0.149	0.149
GAS TURBINE ENGINES ELECTRIC UTILITIES	366.	98.8	79.0	79.0	366.	243.	366.	243.	122000.	0.429	0.429	0.429
FIBERGLASS MANUF - TEXTILE	9.3	2.9	1.1	1.1	9.3	1.1	9.3	1.1	8100.	0.998	0.998	0.998

SULFUR OXIDE
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS						TONS/YEAR T-S-N 1985	I-E/N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
FIBERGLASS MANUF - W80L	3.7	2.5	0.93	0.93	3.7	0.94	2700.	0.994
COKE OVENS - BY PRODUCT	220.	200.	144.	144.	220.	219.	930.	0.012
GAS TURBINE ENGINES GAS PIPELINE	24.1	9.8	7.9	7.9	24.1	21.3	2700.	0.169
W80D PULPING KRAFT	93.9	51.0	35.2	57.5	57.4	46.8	10600.	0.477
• GLASS - OPAL	0.79	0.77	0.52	0.52	0.99	0.52	470.	1.000
• GLASS - SODA LIME	74.7	58.4	39.1	39.1	74.7	39.1	35600.	1.000
• MUNICIPAL INCINERATORS	51.8	35.5	21.6	21.6	51.8	21.6	30100.	1.000
• IRON AND STEEL - SINTERING	121.	94.0	67.7	67.7	121.	67.7	53500.	1.000
• INDUSTRIAL COMMERCIAL INCINERATORS	41.9	14.7	9.0	9.0	41.9	9.0	32800.	1.000
• HYDROFLUORIC ACID	0.69	0.46	0.25	0.25	0.69	0.25	470.	1.000
BLR >250 E6 BTU/HR	27612.	14622.	7311.	8083.	16830.	8518.	8310000.	0.873
BLR 10-250 E6 BTU/HR	6573.	5595.	2797.	2860.	5901.	3323.	2570000.	0.831
LIME PROCESSING	27.2	16.7	8.4	8.4	27.2	17.8	9400.	0.500
COAL CLEANING	67.8	30.2	15.1	26.3	35.6	25.3	10200.	0.500
BRICK & RELATED CLAY PRODUCTS	19.5	15.4	10.3	10.3	19.5	14.0	5500.	0.600
BOILERS <3-10 MM BTU/HR	3887.	2551.	1607.	1607.	3887.	2219.	1660000.	0.732
• PET REF - FCCU	477.	316.	218.	218.	4.7.	218.	259000.	1.000
• BOILERS <0.3 MM BTU/HR	525.	394.	316.	316.	525.	316.	205000.	1.000
• ORCHARD HEATERS	1.4	1.1	0.74	0.74	1.4	0.74	670.	1.000
ASPHALT BATCHING	14.3	9.6	8.8	8.8	13.9	11.6	2300.	0.451

SULFUR OXIDE
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985		
* MINERAL WOOL	0.083	0.069	0.049	0.049	0.083	30.0	1.000

$$\frac{1 - E_N/E_S}{}$$

SULFUR DIOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES			CAPACITY/PRODUCTION		
			ALLOWABLE E S	E N	UNCONT E U	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
PET REF - FCCU	0.85	LB/TON	0.493	0.000	0.493	0.031S	0.042C	E6 TONS	1506.	467.	771.
PRIMARY ALUMINUM SMELTERS	0.92	LB/TON	56.100	0.000	60.000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4
BOILERS <0.3 MM BTU/HR	0.30	LB/E6 BTU	0.107	0.000	0.107	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
IRON AND STEEL - SINTERING	0.90	LB/TON	3.000	0.000	3.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2
GLASS - SODA LIME	0.80	LB/TON	4.240	0.000	4.240	0.033S	0.028S	E6 TONS	34.4	11.4	9.6
MUNICIPAL INCINERATORS	0.56	LB/TON	3.900	0.000	3.900	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
ORCHARD HEATERS	1.00	LB/TON	0.037	0.000	0.037	0.033S	0.028S	E6 TONS	60.0	19.8	16.8
GLASS - BPAL	0.80	LB/TON	4.240	0.000	4.240	0.033S	0.028S	E6 TONS	0.46	0.15	0.13
MINERAL WOOL	0.82	LB/TON	0.020	0.000	0.020	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
INDUSTRIAL COMMERCIAL INCINERATORS	0.38	LB/TON	2.380	0.000	2.380	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
HYDROFLUORIC ACID	0.98	LB/TON	2.100	0.000	2.100	0.045S	0.049S	E6 TONS	0.45	0.20	0.22
FIBERGLASS MANUF - TEXTILE	0.70	LB/TON	16.200	0.040	16.200	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
FIBERGLASS MANUF - WOOL	0.70	LB/TON	6.510	0.040	6.510	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
COPPER SMELTERS	0.85	LB/TON	2503.000	25.000	5000.000	0.036S	0.030C	E6 TONS	2.4	0.86	0.83
EXIST. NEW	0.85	LB/TON	2443.000								
SEC LEAD - BLAST FURN	0.68	LB/TON	46.600	0.480	48.000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
SEC LEAD REVERTB FURN	0.68	LB/TON	202.000	2.120	212.000	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
PRIMARY LEAD SMELTERS	0.99	LB/TON	1320.000	19.800	1320.000	0.036S	0.000S	E6 TONS	0.77	0.28	0.0
EXIST. NEW	0.85	LB/TON	1320.000								
PRIMARY ZINC SMELTERS	0.83	LB/TON	2200.000	33.000	2200.000	0.036S	0.035C	E6 TONS	1.3	0.47	0.53
EXIST. NEW	0.83	LB/TON	1798.000								
EXPLOSIVES - HIGH	0.83	LB/TON	31.000	2.480	31.000	0.045S	0.094C	E6 TONS	1.8	0.83	2.7
EXPLOSIVES - LOW	0.83	LB/TON	65.000	5.200	65.000	0.045S	0.094C	E6 TONS	0.52	0.23	0.76

SULFUR OXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E U	GROWTH RATES DECIMAL/YR			UNITS/YR	CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	E N		P	B	C		A 1975	B 1985	
ELR >250 E6 BTU/HR EXIST. NEW.	0.58 0.58	LB/E6 BTU	1-800 0-970	0-123	1-990	0-050S	0-055C	E12 BTU	28011.	14006.	19836.	
W800 PULPING NSSC	0.98	LB/TON	143-000	20-000	143-000	0-031S	0-012C	E6 TONS	4.2	1.7	0-53	
W800 PULPING SULFITE	0.98	LB/TON	126-000	20-000	126-000	0-031S	0-012C	E6 TONS	2.4	0.74	0-30	
ELR 10-250 E6 BTU/HR EXIST. NEW.	0.32 0.32	LB/E6 BTU	1-790 1-530	0-259	1-830	0-050S	0-014C	E12 BTU	19534.	9767.	2914.	
FIXED FUEL BOILERS - OIL & REFUSE	0.58	LB/TON	20-500	4-100	20-500	0-000S	17-290S	E6 TONS	0-036	0-0	6-2	
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	1-077	0-431	1-077	0-033S	0-027S	E6 TONS	35.7	11.8	9-6	
CEMENT PLANTS EXIST. NEW.	0.90 0.90	LB/TON	21-700 21-000	8-840	21-700	0-025S	0-030C	E6 TONS	103.	25-8	35-4	
COAL CLEANING EXIST. NEW.	0.59 0.59	LB/TON	0-770 0-660	0-330	1-340	0-050S	0-029S	E6 TONS	133.	66-5	38-6	
LIME PROCESSING	0.90	LB/TON	1-420	0-710	1-420	0-050S	0-050C	E6 TONS	26-1	13-1	16-4	
REFINERY FUEL GAS - SULFUR RECOVERY	0.66	LB/TON	38-400	20-000	75-000	0-030S	0-042C	E6 TONS	3-6	1-1	1-8	
W800 PULPING KRAFT	0.98	LB/TON	3-060	1-400	5-000	0-031S	0-012C	E6 TONS	34-0	10-5	4-3	
ASPHALT BATCHING EXIST. NEW.	0.47 0.47	LB/TON	0-027 0-025	0-014	0-027	0-008S	0-050S	E6 TONS	1480.	118.	740.	
OIL AND NAT. GAS PROD-SULFUR RECOVERY	0-50	LB/TON	36-000	20-000	47-000	0-035S	0-042C	E6 TONS	2-9	1-0	1-5	
GAS TURBINE ENGINES ELECTRIC UTILITIES	0-22	LB/TON	16-600	9-480	16-600	0-020S	0-270S	E6 TONS	54-1	10-8	146.	
FIXED FUEL BOILERS - COAL & REFUSE	0-58	LB/TON	60-000	44-800	224-000	0-000S	17-290S	E6 TONS	0-16	0-0	27-0	
SULFURIC ACID PLANTS EXIST. NEW.	0-84 0-84	58-A17 AS	35-000 4-000	3-000	55-000	0-045S	0-053C	E6 TONS	49-0	22-1	33-1	
GAS TURBINE ENGINES GAS PIPELINE	0-85	LB/TON	5-270	4-380	5-270	0-020S	0-145S	E6 TONS	4-4	0-88	6-4	

SULFUR OXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR		UNITS/YR	INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E	N		P	B		A 1975	B 1985	C 1985
INTERNAL COMB ENGS DIESEL		LB/TON	16.800	14.300	16.800	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
COKE OVENS - BY PRODUCT	0.58	LB/TON	5.700	5.630	5.700	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
PET REFINERY PROC GAS COMB	0.93	LB/E6 CFT	2490.000	28.600	8260.000	0.031S	0.042C	E12 BTU	0.23	0.071	0.12
EXIST.	0.85										
NEW.	0.85		28.600								

SULFUR OXIDE
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS						TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
• PET REF - FCCU								
• PRIMARY ALUMINUM SMELTERS	477.	316.	218.	218.	477.	218.	259000.	1.000
• BOILERS < 0.3 MM BTU/HR	341.	155.	101.	108.	319.	101.	218000.	1.000
• IRON AND STEEL - SINTERING	525.	394.	316.	316.	525.	316.	209000.	1.000
• GLASS - SODA LIME	121.	94.0	67.7	67.7	121.	67.7	53500.	1.000
• MUNICIPAL INCINERATORS	74.7	58.4	39.1	39.1	74.7	39.1	35600.	1.000
• ORCHARD HEATERS	51.8	35.5	21.6	21.6	51.8	21.6	30100.	1.000
• GLASS - SPAL	1.4	1.1	0.74	0.74	1.4	0.74	670.	1.000
• MINERAL WOOL	0.99	0.77	0.52	0.52	0.99	0.52	470.	1.000
• INDUSTRIAL COMMERCIAL INCINERATORS	0.083	0.069	0.049	0.049	0.083	0.049	30.0	1.000
• HYDROFLUORIC ACID	41.9	14.7	9.0	9.0	41.9	9.0	32800.	1.000
FIBERGLASS MANUF - TEXTILE	0.69	0.46	0.25	0.25	0.69	0.25	430.	1.000
FIBERGLASS MANUF - WOOL	9.3	2.9	1.1	1.1	9.3	1.1	8100.	0.998
COPPER SMELTERS	3.7	2.5	0.93	0.93	3.7	0.94	2700.	0.994
SEC LEAD - BLAST FURN	6854.	2553.	1634.	3264.	3388.	1652.	1730000.	0.990
SEC LEAD REVERTB FURN	3.3	2.3	1.8	1.8	3.2	1.8	1400.	0.990
PRIMARY LEAD SMELTERS	70.4	49.0	37.2	39.1	67.1	37.5	29500.	0.990
PRIMARY ZINC SMELTERS	458.	503.	276.	276.	458.	279.	178000.	0.985
EXPLOSIVES - HIGH	1674.	1187.	760.	760.	1507.	773.	733000.	0.982
EXPLOSIVES - LOW	58.0	23.6	13.0	13.0	58.0	16.6	41400.	0.920
	34.4	14.0	7.7	7.7	34.4	9.8	24500.	0.920

SULFUR OXIDE
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS 1000 TONS/YEAR			T N 1985	T-S N 1985	I - E / E N S
			T E 1985	T UE 1985	T S 1985			
BLR >250 E6 BTU/HR	27612.	14622.	7311.	8.13.	16830.	8518.	8310000.	0.873
WOOD PULPING NSSC	330.	293.	202.	202.	330.	220.	110000.	0.860
WOOD PULPING SULFITE	167.	148.	102.	102.	167.	113.	54400.	0.841
BLR 10-250 E6 BTU/HR	6573.	5595.	2797.	2860.	5901.	3323.	2570000.	0.831
MIXED FUEL BOILERS - OIL & REFUSE	37.2	0.21	0.21	0.21	37.2	7.6	29600.	0.800
BOILERS .3-10 MM BTU/HR	3887.	2551.	1607.	1607.	3887.	2219.	1660000.	0.732
BRICK & RELATED CLAY PRODUCTS	19.5	15.4	10.3	10.3	19.5	14.0	5500.	0.600
CEMENT PLANTS	1352.	1006.	754.	754.	1332.	998.	334000.	0.579
COAL CLEANING	67.8	30.2	15.1	26.3	35.6	25.3	10200.	0.500
LIME PROCESSING	27.2	16.7	8.4	8.4	27.2	17.8	9400.	0.500
REFINERY FUEL GAS - SULFUR RECOVERY	133.	45.2	31.7	61.9	68.3	50.7	17500.	0.479
WOOD PULPING KRAFT	93.9	51.0	35.2	57.5	57.4	46.8	10600.	0.477
ASPHALT BATCHING	14.3	9.6	8.8	8.8	13.9	11.6	2300.	0.451
OIL AND NAT. GAS PROD-SULFUR RECOVERY	50.9	25.8	16.8	21.9	39.0	29.1	9800.	0.444
GAS TURBINE ENGINES ELECTRIC UTILITIES	366.	98.8	79.0	79.0	366.	243.	122000.	0.429
MIXED FUEL BOILERS - COAL & REFUSE	1762.	2.7	2.7	10.1	472.	353.	118000.	0.253
SULFURIC ACID PLANTS	1897.	720.	396.	623.	489.	466.	23100.	0.250
GAS TURBINE ENGINES GAS PIPELINE	24.1	9.8	7.9	7.9	24.1	21.3	2700.	0.169
INTERNAL COMB ENGS DIESEL DUALFUEL	112.	87.5	70.0	70.0	112.	106.	6200.	0.149
COKE OVENS - BY PRODUCT	220.	200.	144.	144.	220.	219.	930.	0.012

SULFUR OXIDE
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T-T S N 1985	I - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985		
PET REFINRY PROC GAS COMB	0.0012	0.	0.	0.	0.	0.0	-0.000

P
B

SULFUR OXIDE
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES		UNITS/YR	CAPACITY/PRODUCTION		C
			ALLOWABLE E S	EMISSION E N	UNCERT E U	P B	P C	A 1975	B 1985	1985
FIBERGLASS MANUF - TEXTILE	0.70	LB/TON	16.200	0.040	16.200	0.063S	0.122C	0.52	0.32	1.1
FIBERGLASS MANUF - W08L	0.70	LB/TON	6.510	0.040	6.510	0.063S	0.042C	1.1	0.68	0.55
COAL CLEANING	0.59	LB/TON	0.770	0.330	1.340	0.050S	0.029S	133.	66.5	38.6
EXIST- NEW	0.59		0.660							
LIME PROCESSING	0.90	LB/TON	1.420	0.710	1.420	0.050S	0.050C	26.1	13.1	16.4
ELR >250 E6 BTU/HR	0.58	LB/E6 BTU	1.900	0.123	1.990	0.050S	0.055C	28011.	14006.	19836.
EXIST- NEW	0.58		0.970							
ELR 10-250 E6 BTU/HR	0.32	LB/E6 BTU	1.790	0.259	1.830	0.050S	0.014C	19534.	9767.	2914.
EXIST- NEW	0.32		1.530							
EXPLOSIVES - LOW	0.83	LB/TON	65.000	5.200	65.000	0.045S	0.094C	0.52	0.23	0.76
SULFURIC ACID PLANTS	0.84	58-A17 AS	35.000	3.000	55.000	0.045S	0.053C	49.0	22.1	33.1
EXIST- NEW	0.84		4.000							
EXPLOSIVES - HIGH	0.83	LB/TON	31.000	2.480	31.000	0.045S	0.094C	1.8	0.83	2.7
HYDROFLUORIC ACID	0.98	LB/TON	2.100	0.000	2.100	0.045S	0.049S	0.45	0.20	0.22
INDUSTRIAL COMMERCIAL INCINERATORS	0.38	LB/TON	2.380	0.000	2.380	0.039S	0.110C	32.6	12.7	60.0
MUNICIPAL INCINERATORS	0.56	LB/TON	3.900	0.000	3.900	0.039S	0.046S	32.5	12.7	14.9
BOILERS - 3-10 MM BTU/HR	0.25	LB/E6 BTU	0.771	0.207	0.771	0.037S	0.043C	26471.	9794.	13857.
PRIMARY ZINC SMELTERS	0.83	LB/TON	2200.000	33.000	2200.000	0.036S	0.035C	1.3	0.47	0.53
EXIST- NEW	0.83		1798.000							
PRIMARY LEAD SMELTERS	0.99	LB/TON	1320.000	19.800	1320.000	0.036S	0.000S	0.77	0.28	0.0
EXIST- NEW	0.85		1320.000							
COPPER SMELTERS	0.85	LB/TON	2503.000	25.000	5000.000	0.036S	0.030C	2.4	0.86	0.83
EXIST- NEW	0.85		2443.000							
PRIMARY ALUMINUM SMELTERS	0.92	LB/TON	56.100	0.000	60.000	0.035S	0.075C	6.0	2.1	6.4
OIL AND NAT. GAS PRD-SULFUR RECOVERY	0.50	LB/TON	36.000	20.000	47.000	0.035S	0.042C	2.9	1.0	1.5

SULFUR OXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES			CAPACITY/PRODUCTION		C
			ALLOWABLE E S	EMISSION E H	UNCONT E U	P B	P C	A 1975	B 1985	1985
ORCHARD HEATERS	1.00	LB/TON	0.037	0.000	0.037	0.033S	0.028S	60.0	19.8	16.8
GLASS - 6PAL	0.80	LB/TON	4.240	0.000	4.240	0.033S	0.028S	0.46	0.15	0.13
GLASS - SODA LIME	0.80	LB/TON	4.240	0.000	4.240	0.033S	0.028S	34.4	11.4	9.6
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	1.077	0.431	1.077	0.033S	0.027S	35.7	11.8	9.6
WOOD PULPING NSSC	0.98	LB/TON	143.000	20.000	143.000	0.031S	0.012C	4.2	1.3	0.53
WOOD PULPING SULFITE	0.98	LB/TON	126.000	20.000	126.000	0.031S	0.012C	2.4	0.74	0.30
WOOD PULPING KRAFT	0.98	LB/TON	3.060	1.600	5.000	0.031S	0.012C	34.0	10.5	4.3
PET REF - FCCU	0.85	LB/TON	0.493	0.000	0.493	0.031S	0.042C	1506.	467.	771.
PET REFRY PROC GAS COMB EXIST.	0.85	LB/E6 CFT	2490.000	28.600	8260.000	0.031S	0.042C	0.23	0.071	0.12
NEW	0.85	LB/E6 CFT	28.600							
REFINERY FUEL GAS - SULFUR RECOVERY	0.66	LB/TON	38.400	20.000	75.000	0.030S	0.042C	3.6	1.1	1.8
MINERAL W89L	0.92	LB/TON	0.020	0.100	0.020	0.029S	0.020S	8.4	2.5	1.7
COKE OVENS - BY PRODUCT	0.93	LB/TON	5.700	5.630	5.700	0.028S	0.010S	75.5	21.1	7.5
IRON AND STEEL - SINTERING	0.90	LB/TON	3.000	0.000	3.000	0.028S	0.029S	69.6	19.5	20.2
CEMENT PLANTS EXIST.	0.90	LB/TON	21.700	8.840	21.700	0.025S	0.030C	103.	25.8	35.4
NEW	0.90	LB/TON	21.000							
SEC LEAD - BLAST FURN	0.68	LB/TON	46.600	0.480	48.000	0.024S	0.032C	0.15	0.036	0.055
SEC LEAD REVERTB FURN	0.68	LB/TON	202.000	2.120	212.000	0.024S	0.032C	0.71	0.17	0.26
BOILERS <0.3 MM BTU/HR	0.30	LB/E6 BTU	0.107	0.000	0.107	0.020S	0.029C	24572.	4914.	8131.
GAS TURBINE ENGINES ELECTRIC UTILITIES	0.22	LB/TON	16.600	9.480	16.600	0.020S	0.270S	54.1	10.8	146.
INTERNAL COMB ENGS DIESEL DUALFUEL	0.58	LB/TON	16.800	14.300	16.800	0.020S	0.028S	18.0	3.6	5.0
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	5.270	4.380	5.270	0.020S	0.145S	4.4	0.88	6.4

SULFUR OXIDE
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E S	E N		P B	P C		A 1975	B 1985	C 1985
ASPHALT BATCHING											
EXIST- NEW	0-47 0-47	LB/TON	0-027 0-025	0-014	0-027	0-0085	0-0505	E6 TONS	1480.	118.	740.
FIXED FUEL BOILERS - OIL & REFUSE	0-58	LB/TON	20-500	4-100	20-500	0-0005	17-2905	E6 TONS	0-036	0-0	6-2
MIXED FUEL BOILERS - COAL & REFUSE	0-58	LB/TON	60-000	44-800	224-000	0-0005	17-2905	E6 TONS	0-16	0-0	27-0

SOURCE

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SULFUR OXIDE
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985		
* GLASS - SODA LIME	74.7	58.4	39.1	39.1	74.7	39.1	1.000
BRICK & RELATED CLAY PRODUCTS	19.5	15.4	10.3	10.3	19.5	14.0	0.600
WOOD PULPING NSSC	330.	293.	202.	202.	330.	220.	0.860
WOOD PULPING SULFITE	167.	148.	102.	102.	167.	113.	0.841
WOOD PULPING KRAFT	93.9	51.0	35.2	57.5	57.4	46.8	0.477
* PET REF - FCCU	477.	316.	218.	218.	477.	218.	1.000
PET REFINRY PROC GAS COMB	0.0012	0.	0.	0.	0.	0.	-0.000
REFINERY FUEL GAS - SULFUR RECOVERY	133.	45.2	31.7	61.9	68.3	50.7	0.479
* MINERAL WOOL	0.083	0.069	0.049	0.049	0.083	0.049	1.000
COKE OVENS - BY PRODUCT	220.	200.	144.	144.	220.	219.	0.012
* IRON AND STEEL SINTERING	121.	94.0	67.7	67.7	121.	67.7	1.000
CEMENT PLANTS	1352.	1006.	754.	754.	1332.	998.	0.579
SEC LEAD - BLAST FURN	3.3	2.3	1.8	1.8	3.2	1.8	0.390
SEC LEAD REVERTB FURN	70.4	49.0	37.2	39.1	67.1	37.5	0.990
* BOILERS <0.3 MM BTU/HR	525.	394.	316.	316.	525.	316.	1.000
GAS TURBINE ENGINES ELECTRIC UTILITIES	366.	98.8	79.0	79.0	366.	243.	0.429
INTERNAL COMB ENGS DIESEL DUALFUEL	112.	87.5	70.0	70.0	112.	106.	0.149
GAS TURBINE ENGINES GAS PIPELINE	24.1	9.8	7.9	7.9	24.1	21.3	0.169
ASPHALT BATCHING	14.3	9.6	8.8	8.8	13.9	11.6	0.451
MIXED FUEL BOILERS - OIL & REFUSE	37.2	0.21	0.21	0.21	37.2	7.6	0.800

SULFUR OXIDE
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T-T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985		
MIXED FUEL BOILERS - COAL & REFUSE 1762.	2.7	2.7	2.7	10.1	472.	118000.	0.253

P_C (Compound)

SULFUR DIOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCENT E	GROWTH RATES DECIMAL/YR		CAPACITY/PRODUCTION			C 1985
			ALLOWABLE E	N		P	H	A 1975	B 1985		
FIBERGLASS MANUF - TEXTILE											
0.70 LB/TON			16.200	0.040	16.200	0.063S	0.122C	0.52	0.32	1.1	
INDUSTRIAL COMMERCIAL INCINERATORS											
0.38 LB/TON			2.380	0.000	2.380	0.039S	0.110C	32.6	12.7	60.0	
EXPLOSIVES - LOW											
0.83 LB/TON			65.000	5.200	65.000	0.045S	0.094C	0.52	0.23	0.76	
EXPLOSIVES - HIGH											
0.83 LB/TON			31.000	2.480	31.000	0.045S	0.094C	1.8	0.83	2.7	
PRIMARY ALUMINUM SMELTERS											
0.92 LB/TON			56.100	0.000	60.000	0.035S	0.075C	6.0	2.1	6.4	
BLR >250 E6 BTU/HR											
EXIST. 0.58 LB/E6 BTU			1.800	0.123	1.990	0.050S	0.055C	28011.	14006.	19836.	
NEW 0.58			0.970								
SULFURIC ACID PLANTS											
EXIST. 0.84			35.000	3.000	55.000	0.045S	0.053C	49.0	22.1	33.1	
NEW 0.84			4.000								
LIME PROCESSING											
0.90 LB/TON			1.420	0.710	1.420	0.050S	0.050C	26.1	13.1	16.4	
BOILERS 3-10 MH BTU/HR											
0.25 LB/E6 BTU			0.771	0.207	0.771	0.037S	0.043C	26471.	9794.	13857.	
PET REF - FCCU											
0.85 LB/TON			0.493	0.000	0.493	0.031S	0.042C	1506.	467.	771.	
REFINERY FUEL GAS - SULFUR RECOVERY											
0.66 LB/TON			38.400	20.000	75.000	0.030S	0.042C	3.6	1.1	1.8	
OIL AND NAT. GAS PRSD-SULFUR RECOVERY											
0.50 LB/TON			36.000	20.000	47.000	0.035S	0.042C	2.9	1.0	1.5	
PET REFINRY PROC GAS COMB											
EXIST. 0.85 LB/E6 CFT			2490.000	28.600	8260.000	0.031S	0.042C	0.23	0.071	0.12	
NEW 0.85			23.600								
FIBERGLASS MANUF - W86L											
0.70 LB/TON			6.510	0.040	6.510	0.063S	0.042C	1.1	0.68	0.55	
PRIMARY ZINC SMELTERS											
EXIST. 0.83 LB/TON			2200.000	33.000	2200.000	0.036S	0.035C	1.3	0.47	0.53	
NEW 0.83			1798.000								
SEC LEAD - BLAST FURN											
0.68 LB/TON			46.600	0.480	48.000	0.024S	0.032C	0.15	0.036	0.055	
SEC LEAD REVERTB FURN											
0.68 LB/TON			202.000	2.120	212.000	0.024S	0.032C	0.71	0.17	0.26	
CEMENT PLANTS											
EXIST. 0.90 LB/TON			21.700	8.840	21.700	0.025S	0.030C	103.	25.8	35.4	
NEW 0.90			21.000								
COPPER SMELTERS											
EXIST. 0.85 LB/TON			2503.000	25.000	5000.000	0.036S	0.030C	2.4	0.86	0.83	
NEW 0.85			2443.000								

SULFUR DIOXIDE
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			ALLOWABLE E S	E N	UNCONT E U	P B	P C	A 1975	B 1985	C 1985
BOILERS <0.3 MM BTU/HR	0.30									
ELR 10-250 E6 BTU/HR	0.32	LB/E6 BTU	0.107	0.000	0.107	0.020S	0.029C	24572.	4914.	8131.
EXIST.	0.32	LB/E6 BTU	1.790	0.259	1.830	0.050S	0.014C	19534.	9767.	2914.
NEW	0.32		1.530							
WOOD PULPING KRAFT	0.98	LB/TON	3.060	1.600	5.000	0.031S	0.012C	34.0	10.5	4.3
WOOD PULPING NSSC	0.98	LB/TON	143.000	20.000	143.000	0.031S	0.012C	4.2	1.3	0.53
WOOD PULPING SULFITE	0.98	LB/TON	126.000	20.000	126.000	0.031S	0.012C	2.4	0.74	0.30

SOURCE

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SULFUR OXIDE
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T-T S N 1985	1 - E/E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985	
BLR 10-250 E6 BTU/HR	6573.	5595.	2797.	2660.	5901.	3323.	0.831
4000 PULPING KRAFT	93.9	51.0	35.2	57.5	57.4	46.8	0.477
4000 PULPING NSSC	330.	293.	202.	202.	330.	220.	0.860
4000 PULPING SULFITE	167.	148.	102.	102.	167.	113.	0.841

P_C (Simple)

SULFUR OXIDE
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					T N 1985	T S N 1985	T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985				
MIXED FUEL BOILERS - COAL & REFUSE	1762.	2.7	2.7	10.1	472.	353.	118000.	0.253	
MIXED FUEL BOILERS - BIL & REFUSE	37.2	0.21	0.21	0.21	37.2	7.6	29600.	0.800	
GAS TURBINE ENGINES ELECTRIC UTILITIES	366.	98.8	79.0	79.0	366.	243.	122000.	0.429	
GAS TURBINE ENGINES GAS PIPELINE	24.1	9.8	7.9	7.9	24.1	21.3	2700.	0.169	
ASPHALT BATCHING	14.3	9.6	8.8	8.8	13.9	11.6	2300.	0.451	
• HYDROFLUORIC ACID	0.69	0.46	0.25	0.25	0.69	0.25	430.	1.000	
• MUNICIPAL INCINERATORS	51.8	35.5	21.6	21.6	51.4	21.6	30100.	1.000	
COAL CLEANING	67.8	30.2	15.1	26.3	35.6	25.3	10200.	0.500	
• IRON AND STEEL - SINTERING	121.	94.0	67.7	67.7	121.	67.7	53500.	1.000	
• BRICK AND HEATERS	1.4	1.1	0.74	0.74	1.4	0.74	670.	1.000	
• GLASS - OPAL	0.99	0.77	0.52	0.52	0.99	0.52	470.	1.000	
• GLASS - SODA LIME	74.7	58.4	39.1	39.1	74.7	39.1	35600.	1.000	
INTERNAL COMB ENGS DIESEL DUALFUEL	112.	87.5	70.0	70.0	112.	106.	6200.	0.149	
BRICK & RELATED CLAY PRODUCTS	19.5	15.4	10.3	10.3	19.5	14.0	5500.	0.600	
• MINERAL WOOL	0.083	0.069	0.049	0.049	0.083	0.049	30.0	1.000	
COKE OVENS - BY PRODUCT	220.	200.	144.	144.	220.	219.	930.	0.012	
PRIMARY LEAD SHELTERS	458.	503.	276.	276.	458.	279.	178000.	0.985	

K

SULFUR OXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION			C 1985
			ALLOWABLE E S	EMISSION E N	UNCERT E U	P B	P C	UNITS/YR	A 1975	B 1985		
ORCHARD HEATERS	1.00	LB/TON	0.037	0.000	0.037	0.033S	0.028S	E6 TONS	60.0	19.8	16.8	
WOOD PULPING NSSC	0.98	LB/TON	143.000	20.000	143.000	0.031S	0.012C	E6 TONS	4.2	1.3	0.53	
WOOD PULPING SULFITE	0.98	LB/TON	126.000	20.000	126.000	0.031S	0.012C	E6 TONS	2.4	0.74	0.30	
WOOD PULPING KRAFT	0.98	LB/TON	3.060	1.600	5.000	0.031S	0.012C	E6 TONS	34.0	10.5	4.3	
HYDROFLUORIC ACID	0.98	LB/TON	2.100	0.000	2.100	0.045S	0.049S	E6 TONS	0.45	0.20	0.22	
COKE OVENS - BY PRODUCT	0.93	LB/TON	5.700	5.630	5.700	0.028S	0.010S	E6 TONS	75.5	21.1	7.5	
PRIMARY ALUMINUM SMELTERS	0.92	LB/TON	56.100	0.000	60.000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4	
IRON AND STEEL - SINTERING	0.90	LB/TON	3.000	0.000	3.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2	
CEMENT PLANTS	0.90	LB/TON	21.700	8.840	21.700	0.025S	0.030C	E6 TONS	103.	25.8	35.4	
EXIST. NEW	0.90	LB/TON	21.000									
LINE PROCESSING	0.90	LB/TON	1.420	0.710	1.420	0.050S	0.050C	E6 TONS	26.1	13.1	16.4	
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	5.270	4.380	5.270	0.020S	0.145S	E6 TONS	4.4	0.88	6.4	
PET REFINRY PROC GAS COMB	0.85	LB/E6 CFT	2490.000	28.600	8260.000	0.031S	0.042C	E12 BTU	0.23	0.071	0.12	
EXIST. NEW	0.85	LB/E6 CFT	28.600									
PET REF - FCCU	0.85	LB/TON	0.493	0.000	0.493	0.031S	0.042C	E6 TONS	1506.	467.	771.	
COPPER SMELTERS	0.85	LB/TON	2503.000	25.000	5000.000	0.036S	0.030C	E6 TONS	2.4	0.86	0.83	
EXIST. NEW	0.85	LB/TON	2443.000									
PRIMARY LEAD SMELTERS	0.99	LB/TON	1320.000	19.800	1320.000	0.036S	0.000S	E6 TONS	0.77	0.28	0.0	
EXIST. NEW	0.85	LB/TON	1320.000									
SULFURIC ACID PLANTS	0.84	58-A17 AS	35.000	3.000	55.000	0.045S	0.053C	E6 TONS	49.0	22.1	33.1	
EXIST. NEW	0.84	58-A17 AS	4.000									
EXPLOSIVES - HIGH	0.83	LB/TON	31.000	2.480	31.000	0.045S	0.094C	E6 TONS	1.8	0.83	2.7	
EXPLOSIVES - LOW	0.83	LB/TON	65.000	5.200	65.000	0.045S	0.094C	E6 TONS	0.52	0.23	0.76	
PRIMARY ZINC SMELTERS	0.83	LB/TON	2200.000	33.000	2200.000	0.036S	0.035C	E6 TONS	1.3	0.47	0.53	
EXIST. NEW	0.83	LB/TON	1798.000									

SULFUR OXIDE
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES			CAPACITY/PRODUCTION		C
			ALLOWABLE E S	EMISSION E N	UNCONT E U	DECIMAL/YR P B	P C	A 1975	B 1985	1985
MINERAL WOOL	0.82	LB/TON	0.020	0.000	0.020	0.029S	0.020S	8.4	2.5	1.7
GLASS - BPAL	0.80	LB/TON	4.240	0.000	4.240	0.033S	0.028S	0.46	0.15	2.13
GLASS - SODA LIME	0.80	LB/TON	4.240	0.000	4.240	0.033S	0.028S	34.4	11.4	9.6
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	1.077	0.431	1.077	0.033S	0.027S	35.7	11.8	9.6
FIBERGLASS MANUF - TEXTILE	0.70	LB/TON	16.200	0.040	16.200	0.063S	0.122C	0.52	0.32	1.1
FIBERGLASS MANUF - WOOL	0.70	LB/TON	6.510	0.040	6.510	0.063S	0.042C	1.1	0.68	0.55
SEC LEAD REVERTB FURN	0.68	LB/TON	202.000	2.120	212.000	0.024S	0.032C	0.71	0.17	0.26
SEC LEAD - BLAST FURN	0.68	LB/TON	46.600	0.480	48.000	0.024S	0.032C	0.15	0.036	0.055
REFINERY FUEL GAS - SULFUR RECOVERY	0.66	LB/TON	38.400	20.000	75.000	0.030S	0.042C	3.6	1.1	1.8
COAL CLEANING	0.59	LB/TON	0.770	0.330	1.340	0.050S	0.029S	133.	66.5	38.6
EXIST. NEW	0.59	LB/TON	0.660							
MIXED FUEL BOILERS - OIL & REFUSE	0.58	LB/TON	20.500	4.100	20.500	0.000S	17.290S	0.036	0.0	6.2
MIXED FUEL BOILERS - COAL & REFUSE	0.58	LB/TON	60.000	44.800	224.000	0.000S	17.290S	0.16	0.0	27.0
INTERNAL COMB ENGS DIESEL DUALFUEL	0.58	LB/TON	16.800	14.300	16.800	0.020S	0.028S	18.0	3.6	5.0
ELR >250 E6 BTU/HR	0.58	LB/E6 BTU	1.800	0.123	1.990	0.050S	0.055C	28011.	14006.	19836.
EXIST. NEW	0.58	LB/E6 BTU	0.970							
MUNICIPAL INCINERATORS	0.56	LB/TON	3.900	0.000	3.900	0.039S	0.046S	32.5	12.7	14.9
OIL AND NAT. GAS PRSD-SULFUR RECOVERY	0.50	LB/TON	36.000	20.000	47.000	0.035S	0.042C	2.9	1.0	1.5
ASPHALT BATCHING	0.47	LB/TON	0.027	0.014	0.027	0.008S	0.050S	1480.	118.	740.
EXIST. NEW	0.47	LB/TON	0.025							
INDUSTRIAL COMMERCIAL INCINERATORS	0.38	LB/TON	2.380	0.000	2.380	0.039S	0.110C	32.6	12.7	60.0
ELR 10-250 E6 BTU/HR	0.32	LB/E6 BTU	1.790	0.259	1.830	0.050S	0.014C	19534.	9767.	2914.
EXIST. NEW	0.32	LB/E6 BTU	1.530							

SULFUR DIOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION			C 1985
			S	E	N	P	B	C	A	B	C	
BOILERS <3 MM BTU/HR	0.30	LB/E6 BTU	0.107	0.000	0.107	0.020S	0.029C	E12 BTU	24572.	4914.	8131.	
BOILERS 3-10 MM BTU/HR	0.25	LB/E6 BTU	0.771	0.207	0.771	0.037S	0.043C	E12 BTU	26471.	9794.	13857.	
GAS TURBINE ENGINES ELECTRIC UTILITIES	0.22	LB/TON	16.500	9.480	16.600	0.020S	0.270S	E6 TONS	54.1	10.8	146.	

SULFUR DIOXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T-S-N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985		
* GLASS - SPAL	0.99	0.77	0.52	0.52	0.99	470.	1.000
* GLASS - SODA LIME	74.7	58.4	39.1	39.1	74.7	35600.	1.000
BRICK & RELATED CLAY PRODUCTS	19.5	15.4	10.3	10.3	19.5	5500.	0.600
FIBERGLASS MANUF - TEXTILE	9.3	2.9	1.1	1.1	9.3	8100.	0.998
FIBERGLASS MANUF - W08L	3.7	2.5	0.93	0.93	3.7	2700.	0.994
SEC LEAD REVERTB FURN	70.4	49.0	37.2	39.1	67.1	29500.	0.990
SEC LEAD - BLAST FURN	3.3	2.3	1.8	1.8	3.2	1400.	0.990
REFINERY FUEL GAS - SULFUR RECOVERY	133.	45.2	31.7	61.9	63.3	17500.	0.479
COAL CLEANING	67.8	30.2	15.1	26.3	35.6	10200.	0.500
MIXED FUEL BOILERS - OIL & REFUSE	37.0	0.21	0.21	0.21	37.2	29600.	0.300
MIXED FUEL BOILERS - COAL & REFUSE	1762.	2.7	2.7	10.1	472.	118000.	0.253
INTERNAL COMB ENGS DIESEL DUALFUEL	112.	87.5	70.0	70.0	112.	6200.	0.149
BLR >250 E6 BTU/HR	27612.	14622.	7311.	8083.	16830.	8310000.	0.873
* MUNICIPAL INCINERATORS	51.8	35.5	21.6	21.6	51.8	30100.	1.000
OIL AND NAT. GAS PROD-SULFUR RECOVERY	50.9	25.8	16.8	21.9	39.0	9800.	0.444
ASPHALT BATCHING	14.3	9.6	8.8	8.8	13.9	2300.	0.451
* INDUSTRIAL COMMERCIAL INCINERATORS	41.9	14.7	9.0	9.0	41.9	32800.	1.000
BLR 10-250 E6 BTU/HR	6573.	5595.	2797.	2860.	5901.	2570000.	0.831
* BOILERS <0.3 MM BTU/HR	525.	394.	316.	316.	525.	209000.	1.000
BOILERS 0.3-10 MM BTU/HR	3887.	2551.	1607.	1607.	3887.	1660000.	0.732

SULFUR OXIDE
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS				TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	1000 TONS/YEAR T UE 1985	T S 1985		
GAS TURBINE ENGINES	366.		79.0	79.0	122000.	0.429
ELECTRIC UTILITIES		98.8		366.		

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SULFUR DIOXIDE
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES		CAPACITY/PRODUCTION		C		
			ALLOWABLE E	UNITS S	DECIMAL/YR P	UNITS/YR C	1975 A	1985 B			
BLR >250 E6 BTU/HR		LB/E6 BTU	1.800	0.123	1.990	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
EXIST:	0.52		0.970								
NEW:	0.58										
COPPER SMELTERS		LB/TON	2503.000	25.000	5000.000	0.036S	0.030C	E6 TONS	2.4	0.86	0.83
EXIST:	0.85		2443.000								
NEW:	0.85										
BLR 10-250 E6 BTU/HR		LB/E6 BTU	1.790	0.259	1.830	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
EXIST:	0.32		1.530								
NEW:	0.32										
BOILERS .3-10 MM BTU/HR		LB/E6 BTU	0.771	0.207	0.771	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
EXIST:	0.25		0.771								
NEW:	0.25										
SULFURIC ACID PLANTS		58-A17 AS	35.000	3.000	55.000	0.045S	0.053C	E6 TONS	49.0	22.1	33.1
EXIST:	0.84		4.000								
NEW:	0.84										
MIXED FUEL BOILERS - COAL & REFUSE		LB/TON	60.000	44.800	224.000	0.000S	17.290S	E6 TONS	0.16	0.0	27.0
EXIST:	0.58		60.000								
NEW:	0.58										
PRIMARY ZINC SMELTERS		LB/TON	2200.000	33.000	2200.000	0.036S	0.035C	E6 TONS	1.3	0.47	0.53
EXIST:	0.83		1798.000								
NEW:	0.83										
CEMENT PLANTS		LB/TON	21.700	8.840	21.700	0.025S	0.030C	E6 TONS	103.	25.8	35.4
EXIST:	0.90		21.000								
NEW:	0.90										
BOILERS <.3 MM BTU/HR		LB/E6 BTU	0.107	0.000	0.107	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
EXIST:	0.30		0.107								
NEW:	0.30										
FET REF - FCCU		LB/TON	0.493	0.000	0.493	0.031S	0.042C	E6 TONS	1506.	467.	771.
EXIST:	0.85		0.493								
NEW:	0.85										
PRIMARY LEAD SMELTERS		LB/TON	1320.000	19.800	1320.000	0.036S	0.000S	E6 TONS	0.77	0.28	0.0
EXIST:	0.99		1320.000								
NEW:	0.99										
GAS TURBINE ENGINES ELECTRIC UTILITIES		LB/TON	16.600	9.480	16.600	0.020S	0.270S	E6 TONS	54.1	10.8	146.
EXIST:	0.22		16.600								
NEW:	0.22										
PRIMARY ALUMINUM SMELTERS		LB/TON	56.100	0.000	60.000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4
EXIST:	0.92		56.100								
NEW:	0.92										
W800 PULPING NSSC		LB/TON	143.000	20.000	143.000	0.031S	0.012C	E6 TONS	4.2	1.3	0.53
EXIST:	0.98		143.000								
NEW:	0.98										
COKE OVENS - BY PRODUCT		LB/TON	5.700	5.630	5.700	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
EXIST:	0.93		5.700								
NEW:	0.93										
W900 PULPING SULFITE		LB/TON	126.000	20.000	126.000	0.031S	0.012C	E6 TONS	2.4	0.74	0.30
EXIST:	0.98		126.000								
NEW:	0.98										
REFINERY FUEL GAS - SULFUR RECOVERY		LB/TON	38.400	20.000	75.000	0.030S	0.042C	E6 TONS	3.6	1.1	1.8
EXIST:	0.66		38.400								
NEW:	0.66										
IRON AND STEEL - SINTERING		LB/TON	3.000	0.000	3.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2
EXIST:	0.90		3.000								
NEW:	0.90										

SULFUR OXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCERT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	EMISSION E N		P	B	P	A 1975	B 1985	
INTERNAL COMB ENGS DIESEL C/JALFUEL											
	0.58	LB/TON	16.800	14.300	16.800	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
WOOD PULPING KRAFT	0.98	LB/TON	3.060	1.600	5.000	0.031S	0.012C	E6 TONS	34.0	10.5	4.3
GLASS - SODA LIME	0.80	LB/TON	4.240	0.000	4.240	0.033S	0.028S	E6 TONS	34.4	11.4	9.6
SEC LEAD REVERTB FURN	0.68	LB/TON	202.000	2.120	212.000	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
COAL CLEANING		LB/TON	0.770	0.330	1.340	0.050S	0.029S	E6 TONS	133.	66.5	38.6
EXIST. NEW.	0.59 0.59		0.660								
EXPLOSIVES - HIGH	0.83	LB/TON	31.000	2.480	31.000	0.045S	0.094C	E6 TONS	1.8	0.83	2.7
MUNICIPAL INCINERATORS	0.56	LB/TON	3.900	0.000	3.900	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
OIL AND NAT. GAS PROD-SULFUR RECOVERY	0.50	LB/TON	36.000	20.000	47.000	0.035S	0.042C	E6 TONS	2.9	1.0	1.5
INDUSTRIAL COMMERCIAL INCINERATORS	0.38	LB/TON	2.380	0.000	2.380	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
FIXED FUEL BOILERS - OIL & REFUSE	0.58	LB/TON	20.500	4.100	20.500	0.000S	17.290S	E6 TONS	0.036	0.0	6.2
EXPLOSIVES - LOW	0.83	LB/TON	65.000	5.200	65.000	0.045S	0.094C	E6 TONS	0.52	0.23	0.76
LIME PROCESSING	0.90	LB/TON	1.420	0.710	1.420	0.050S	0.050C	E6 TONS	26.1	13.1	16.4
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	5.270	4.380	5.270	0.020S	0.145S	E6 TONS	4.4	0.88	6.4
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	1.077	0.431	1.077	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
ASPHALT BATCHING	0.47	LB/TON	0.027	0.014	0.027	0.008S	0.050S	E6 TONS	1480.	118.	740.
EXIST. NEW.	0.47 0.47		0.025								
FIBERGLASS MANUF - TEXTILE	0.70	LB/TON	16.200	0.040	16.200	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
FIBERGLASS MANUF - WOOL	0.70	LB/TON	6.510	0.040	6.510	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
SEC LEAD - BLAST FURN	0.68	LB/TON	46.600	0.480	48.000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
ORCHARD HEATERS	1.00	LB/TON	0.037	0.000	0.037	0.033S	0.028S	E6 TONS	60.0	19.8	16.8
GLASS - OPAL	0.80	LB/TON	4.240	0.000	4.240	0.033S	0.028S	E6 TONS	0.46	0.15	0.13

SULFUR OXIDE
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	EMISSIBLE E N	U	P B	P C	A 1975	B 1985	
HYDROFLUORIC ACID	0.98	LB/TON	2.100	0.000	2.100	0.0455	0.0495	0.45	0.20	0.22
MINERAL WASH	0.82	LB/TON	0.020	0.000	0.020	0.0295	0.0205	8.4	2.5	1.7
PET REFINRY PROC GAS COMB EXIST. NEW.	0.85 0.85	LB/E6 CFT 2490.000 28.600	28.600	8260.000	0.0315	0.042C	0.042C	0.23	0.071	0.12

SULFUR DIOXIDE

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS					T N 1985	T S 1985	T N 1985	TNS/YEAR T-S 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985					
BLR >250 E6 BTU/HR	27612.	14622.	7311.	8083.	16830.	8518.			8310000.	0.873
COPPER SMELTERS	6854.	2553.	1634.	3264.	3388.	1652.			1730000.	0.990
BLR 10-250 E6 BTU/HR	6573.	5595.	2797.	2860.	5901.	3323.			2570000.	0.831
BOILERS .3-10 MM BTU/HR	3887.	2551.	1607.	1607.	3887.	2219.			1660000.	0.732
SULFURIC ACID PLANTS	1897.	720.	396.	623.	489.	466.			23100.	0.250
MIXED FUEL BOILERS - COAL & REFUSE	1762.	2.7	2.7	10.1	472.	353.			118000.	0.253
PRIMARY ZINC SMELTERS	1674.	1187.	760.	760.	1507.	773.			733000.	0.982
CEMENT PLANTS	1352.	1006.	754.	754.	1332.	998.			334000.	0.579
• BOILERS <.3 MM BTU/HR	525.	394.	316.	316.	525.	316.			209000.	1.000
• PET REF - FCCU	477.	316.	218.	218.	477.	218.			259000.	1.000
PRIMARY LEAD SMELTERS	459.	503.	276.	276.	458.	279.			178000.	0.985
GAS TURBINE ENGINES ELECTRIC UTILITIES	366.	98.8	79.0	79.0	366.	243.			122000.	0.729
• PRIMARY ALUMINUM SMELTERS	341.	155.	101.	108.	319.	101.			218000.	1.000
WOOD PULPING NSSC	330.	293.	202.	202.	330.	220.			110000.	0.860
COKE OVENS - BY PRODUCT	220.	200.	144.	144.	220.	219.			930.	0.012
WOOD PULPING SULFITE	167.	148.	102.	102.	167.	113.			54400.	0.841
REFINERY FUEL GAS - SULFUR RECOVERY	133.	45.2	31.7	61.9	68.3	50.7			17500.	0.479
• IRON AND STEEL - SINTERING	121.	94.0	67.7	67.7	121.	67.7			53500.	1.000
INTERNAL COMB ENGS DIESEL DUALFUEL	112.	87.5	70.0	70.0	112.	106.			6200.	0.149
WOOD PULPING KRAFT	93.9	51.0	35.2	57.5	57.4	46.8			10600.	0.477

SULFUR OXIDE
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS			T N 1985	TONS/YEAR T - T S N 1985	I - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985			
* GLASS - SODA LIME	74.7	58.4	39.1	39.1	74.7	39.1	35600.	1.000
SEC LEAD REVERTB FURN	70.4	49.0	37.2	39.1	67.1	37.5	29500.	0.990
COAL CLEANING	67.8	30.2	15.1	26.3	35.6	25.3	10200.	0.500
EXPLOSIVES - HIGH	53.0	23.6	13.0	13.0	58.0	16.6	41400.	0.920
* MUNICIPAL INCINERATORS	51.8	35.5	21.6	21.6	51.8	21.6	30100.	1.000
OIL AND NAT. GAS PROD-SULFUR RECOVERY	50.9	25.8	16.8	21.9	39.0	29.1	9800.	0.444
* INDUSTRIAL COMMERCIAL INCINERATORS	41.9	14.7	9.0	9.0	41.9	9.0	32800.	1.000
MIXED FUEL BOILERS - OIL & REFUSE	37.2	0.21	0.21	0.21	37.2	7.6	29600.	0.800
EXPLOSIVES - LOW	34.4	14.0	7.7	7.7	34.4	9.8	24500.	0.920
LIME PROCESSING	27.2	16.7	8.4	8.4	27.2	17.8	9400.	0.500
GAS TURBINE ENGINES GAS PIPELINE	24.1	9.3	7.9	7.9	24.1	21.3	2700.	0.169
BRICK & RELATED CLAY PRODUCTS	19.5	15.4	10.3	10.3	19.5	14.0	5500.	0.600
ASPHALT BATCHING	14.3	9.6	8.8	8.8	13.9	11.6	2300.	0.451
FIBERGLASS MANUF - TEXTILE	9.3	2.9	1.1	1.1	9.3	1.1	8100.	0.998
FIBERGLASS MANUF - W08L	3.7	2.5	0.93	0.93	3.7	0.94	2700.	0.994
SEC LEAD - BLAST FURN	3.3	2.3	1.8	1.8	3.2	1.8	1400.	0.990
* BRCHARD HEATERS	1.4	1.1	0.74	0.74	1.4	0.74	670.	1.000
* GLASS - 0PAL	0.99	0.77	0.52	0.52	0.99	0.52	470.	1.000
* HYDROFLUORIC ACID	0.69	0.46	0.25	0.25	0.69	0.25	430.	1.000
* MINERAL W08L	0.083	0.069	0.049	0.049	0.083	0.049	30.0	1.000

SULFUR OXIDE

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T-S-N 1985	1-E/E N-S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985	
PET REFINRY PROC GAS COMB	0.0012	0.000	0.000	0.001	0.000	0.000	-0.000

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SULFUR OXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES			INDUSTRY		
			ALLOWABLE F S	EMISSION E N	UNCERT U	DECIMAL/YR P B C	UNITS/YR	A 1975	B 1985	C 1985	
BLR >250 E6 BTU/HR EXIST. NEW.	0.58 0.58	LB/E6 BTU	1.800 0.970	0.123	1.990	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
BLR 10-250 E6 BTU/HR EXIST. NEW.	0.32 0.32	LB/E6 BTU	1.790 1.530	0.259	1.830	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
COPPER SMELTERS EXIST. NEW.	0.85 0.85	LB/TON	2503.000 2443.000	25.000	5000.000	0.036S	0.030C	E6 TONS	2.4	0.86	0.83
BOILERS 3-10 MM BTU/HR EXIST. NEW.	0.25 0.83 0.83	LB/E6 BTU	0.771	0.207	0.771	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
PRIMARY ZINC SMELTERS EXIST. NEW.	0.83 0.83	LB/TON	2200.000 1798.000	33.000	2200.000	0.036S	0.035C	E6 TONS	1.3	0.47	0.53
CEMENT PLANTS EXIST. NEW.	0.90 0.90	LB/TON	21.700 21.000	8.840	21.700	0.025S	0.030C	E6 TONS	103.	25.8	35.4
SULFURIC ACID PLANTS EXIST. NEW.	0.84 0.84	58-A17 AS	35.000 4.000	3.000	55.000	0.045S	0.053C	E6 TONS	49.0	22.1	33.1
PRIMARY LEAD SMELTERS EXIST. NEW.	0.99 0.85	LB/TON	1320.000 1320.000	19.800	1320.000	0.036S	0.000S	E6 TONS	0.77	0.28	0.0
BOILERS <3 MM BTU/HR FET REF - FCCU	0.30 0.85	LB/E6 BTU	0.107	0.000	0.107	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
WOOD PULPING NSSC COKE OVENS - BY PRODUCT	0.98 0.93	LB/TON	0.493	0.000	0.493	0.031S	0.042C	E6 TONS	1506.	467.	771.
PRIMARY ALUMINUM SMELTERS WOOD PULPING SULFITE	0.92 0.98	LB/TON	56.100	0.000	60.000	0.035S	0.075C	E6 TONS	4.2	1.3	0.53
GAS TURBINE ENGINES ELECTRIC UTILITIES IRON AND STEEL - SINTERING	0.93 0.22	LB/TON	5.700	5.630	5.700	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
INTERNAL COMB ENGS DIESEL DUALFUEL GLASS - SODA LIME	0.92 0.90 0.58 0.80	LB/TON	126.000 16.600 3.000 16.900 4.240	20.000 9.480 0.000 14.300 0.000	126.000 16.600 3.000 16.800 4.240	0.031S 0.020S 0.028S 0.020S 0.033S	0.012C 0.270S 0.029S 0.028S 0.028S	E6 TONS E6 TONS E6 TONS E6 TONS E6 TONS	2.4 54.1 69.6 18.0 34.4	0.74 10.8 19.5 3.6 11.4	0.30 146. 20.2 5.0 9.6

SULFUR OXIDE
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION ALLOWABLE E S	EMISSION RATES		UNCONT E U	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C 1985
				N	P		P	B	P	A 1975	B 1985	
WOOD PULPING KRAFT	0.98	LB/TON	3.060	1.600	0.031S	5.000	0.012C	0.031S	0.012C	34.0	10.5	4.3
SEC LEAD REVERTB FURN	0.68	LB/TON	202.000	2.120	0.024S	212.000	0.032C	0.024S	0.032C	0.71	0.17	0.26
REFINERY FUEL GAS - SULFUR RECOVERY	0.66	LB/TON	38.400	20.000	0.030S	75.000	0.042C	0.030S	0.042C	3.6	1.1	1.8
MUNICIPAL INCINERATORS	0.56	LB/TON	3.900	0.000	0.039S	3.900	0.046S	0.039S	0.046S	32.5	12.7	14.9
COAL CLEANING	0.59	LB/TON	0.770	0.330	0.050S	1.340	0.029S	0.050S	0.029S	133.	66.5	38.6
EXIST. NEW.	0.59	LB/TON	0.660									
OIL AND NAT. GAS PROD-SULFUR RECOVERY	0.50	LB/TON	36.000	20.000	0.035S	47.000	0.042C	0.035S	0.042C	2.9	1.0	1.5
EXPLOSIVES - HIGH	0.83	LB/TON	31.000	2.480	0.045S	31.000	0.094C	0.045S	0.094C	1.8	0.83	2.7
LIME PROCESSING	0.90	LB/TON	1.420	0.710	0.050S	1.420	0.050C	0.050S	0.050C	26.1	13.1	16.4
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	1.077	0.431	0.033S	1.077	0.027S	0.033S	0.027S	35.7	11.8	9.6
INDUSTRIAL COMMERCIAL INCINERATORS	0.38	LB/TON	2.380	0.000	0.039S	2.380	0.110C	0.039S	0.110C	32.6	12.7	60.0
EXPLOSIVES - LOW	0.43	LB/TON	65.000	5.200	0.045S	65.000	0.094C	0.045S	0.094C	0.52	0.23	0.76
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	5.270	4.380	0.020S	5.270	0.145S	0.020S	0.145S	4.4	0.88	6.4
ASPHALT BATCHING	0.47	LB/TON	0.027	0.014	0.008S	0.027	0.050S	0.008S	0.050S	1480.	118.	740.
EXIST. NEW.	0.47	LB/TON	0.025									
FIBERGLASS MANUF - TEXTILE	0.70	LB/TON	16.200	0.040	0.063S	16.200	0.122C	0.063S	0.122C	0.52	0.32	1.1
MIXED FUEL RAILERS - COAL & REFUSE	0.58	LB/TON	60.000	44.800	0.000S	224.000	17.290S	0.000S	17.290S	0.16	0.0	27.0
FIBERGLASS MANUF - W08L	0.70	LB/TON	6.510	0.040	0.063S	6.510	0.042C	0.063S	0.042C	1.1	0.68	0.55
SEC LEAD - BLAST FURN	0.68	LB/TON	46.600	0.480	0.024S	48.000	0.032C	0.024S	0.032C	0.15	0.036	0.055
ORCHARD HEATERS	1.00	LB/TON	0.037	0.000	0.033S	0.037	0.028S	0.033S	0.028S	60.0	19.8	16.8
GLASS - 8PAL	0.80	LB/TON	4.240	0.000	0.033S	4.240	0.028S	0.033S	0.028S	0.46	0.15	0.13
HYDROFLUORIC ACID	0.98	LB/TON	2.100	0.000	0.045S	2.100	0.049S	0.045S	0.049S	0.45	0.20	0.22

SULFUR OXIDE
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE		UNCONT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C 1985
			E S	E N		P B	P C	A 1975	B 1985		
FIXED FUEL BOILERS - OIL & REFUSE											
	0.58	LB/TON	20.500	4.100	20.500	0.000S	17.290S	E6 TONS	0.036	0.0	6.2
MINERAL WOOL											
	0.82	LB/TON	0.020	0.000	0.020	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
PET REFRY PROC GAS COMB											
EXIST=	0.85	LB/E6 CFT	2490.000	28.600	8260.000	0.031S	0.042C	E12 BTU	0.23	0.071	0.12
NEW=	0.85		28.600								

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS						TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
BLR >250 E6 BTU/HR	27612.	14622.	7311.	8083.	16830.	8518.	8310000.	0.873
BLR 10-250 E6 BTU/HR	6573.	5595.	2797.	2860.	5901.	3323.	2570000.	0.831
COPPER SMELTERS	6854.	2553.	1634.	3264.	3388.	1652.	1730000.	0.990
BOILERS .3-10 MM BTU/HR	3887.	2551.	1507.	1607.	3887.	2219.	1660000.	0.732
PRIMARY ZINC SMELTERS	1674.	1187.	760.	760.	1507.	773.	733000.	0.982
CEMENT PLANTS	1352.	1006.	754.	754.	1332.	998.	334000.	0.579
SULFURIC ACID PLANTS	1897.	720.	396.	623.	489.	466.	23100.	0.250
PRIMARY LEAD SMELTERS	458.	503.	276.	276.	458.	279.	178000.	0.985
* BOILERS <.3 MM BTU/HR	525.	394.	316.	316.	525.	316.	209000.	1.000
* FET REF - FCCU	477.	316.	218.	218.	477.	218.	259000.	1.000
W00D PULPING NSSC	330.	293.	202.	202.	330.	220.	110000.	0.860
COKE OVENS - BY PRODUCT	220.	200.	144.	144.	220.	219.	930.	0.012
* PRIMARY ALUMINUM SMELTERS	341.	155.	101.	108.	319.	101.	218000.	1.000
W00D PULPING SULFITE	167.	148.	102.	102.	167.	113.	54400.	0.841
GAS TURBINE ENGINES	366.	98.8	79.0	79.0	366.	243.	122000.	0.429
* IRON AND STEEL - SINTERING	121.	94.0	67.7	67.7	121.	67.7	53500.	1.000
INTERNAL COMB ENGS DIESEL DUALFUEL	112.	87.5	70.0	70.0	112.	106.	6200.	0.149
* GLASS - SODA LIME	74.7	58.4	39.1	39.1	74.7	39.1	35600.	1.000
W00D PULPING KRAFT	93.9	51.0	35.2	57.5	57.4	46.8	10600.	0.477
SEC LEAD REVERTB FURN	70.4	49.0	37.2	39.1	67.1	37.5	29500.	0.990

SULFUR OXIDE
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					T N 1985	T S 1985	T N 1985	T S 1985	T N 1985	T S 1985	1 - E / E N S
	T J 1985	T A 1975	T E 1985	T UE 1985	1000 TONS/YEAR							
REFINERY FUEL GAS - SULFUR RECOVERY		45.2	31.7	61.9		50.7	68.3	17500.		0.479		
* MUNICIPAL INCINERATORS	133.											
COAL CLEANING	51.8	35.5	21.6	21.6		21.6	51.8	30100.		1.000		
OIL AND NAT. GAS PROD-SULFUR RECOVERY	67.8	30.2	15.1	26.3		25.3	35.6	10200.		0.500		
EXPLOSIVES - HIGH	50.9	25.8	16.8	21.9		29.1	39.0	9800.		0.444		
LIME PROCESSING	53.0	23.6	13.0	13.0		16.6	58.0	41400.		0.920		
BRICK & RELATED CLAY PRODUCTS	27.2	16.7	8.4	8.4		17.8	27.2	9400.		0.500		
* INDUSTRIAL COMMERCIAL INCINERATORS	19.5	15.4	10.3	10.3		14.0	19.5	5500.		0.600		
EXPLOSIVES - LOW	41.9	14.7	9.0	9.0		9.0	41.9	32800.		1.000		
GAS TURBINE ENGINES GAS PIPELINE	34.4	14.0	7.7	7.7		9.8	34.4	24500.		0.920		
ASPHALT BATCHING	24.1	9.8	7.9	7.9		21.3	24.1	2700.		0.169		
FIBERGLASS MANUF - TEXTILE	14.3	9.6	8.8	8.8		11.6	13.9	2300.		0.451		
MIXED FUEL BOILERS - COAL & REFUSE	9.3	2.9	1.1	1.1		1.1	9.3	8100.		0.998		
FIBERGLASS MANUF - WOOL	1762.	2.7	2.7	10.1		353.	472.	118000.		0.253		
SEC LEAD - BLAST FURN	3.7	2.5	0.93	0.93		0.94	3.7	2700.		0.994		
* ORCHARD HEATERS	3.3	2.3	1.8	1.8		1.8	3.2	1400.		0.990		
* GLASS - OPAL	1.4	1.1	0.74	0.74		0.74	1.4	670.		1.000		
* HYDROFLUORIC ACID	0.99	0.77	0.52	0.52		0.52	0.99	470.		1.000		
MIXED FUEL BOILERS - OIL & REFUSE	0.69	0.46	0.25	0.25		0.25	0.69	430.		1.000		
* MINERAL WOOL	37.2	0.21	0.21	0.21		7.6	37.2	29600.		0.800		
	0.083	0.069	0.049	0.049		0.049	0.083	30.0		1.000		

SULFUR OXIDE
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T-S-N 1985	I-E/E W-S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985		
PET REFINRY PROC GAS COMB	0.0012	0.000	0.000	0.001	0.000	0.0	-0.000

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SULFUR DIOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E S	E N	UNCOUNT E U	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
SEC LEAD REVERTB FURN	0.68	LB/TON	202.000	2.120	212.000	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
WOOD PULPING KRAFT	0.98	LB/TON	3.060	1.600	5.000	0.031S	0.012C	E6 TONS	34.0	10.5	4.3
REFINERY FUEL GAS - SULFUR RECOVERY	0.66	LB/TON	38.400	20.000	75.000	0.030S	0.042C	E6 TONS	3.6	1.1	1.8
MUNICIPAL INCINERATORS	0.56	LB/TON	3.900	0.000	3.900	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
OIL AND NAT. GAS PROD-SULFUR RECOVERY	0.50	LB/TON	36.000	20.000	47.000	0.035S	0.042C	E6 TONS	2.9	1.0	1.5
COAL CLEANING	0.59	LB/TON	0.770	0.330	1.340	0.050S	0.029S	E6 TONS	133.	66.5	38.6
EXIST. NEW.	0.59		0.660								
EXPLOSIVES - HIGH	0.83	LB/TON	31.000	2.480	31.000	0.045S	0.094C	E6 TONS	1.8	0.83	2.7
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	1.077	0.431	1.077	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
INDUSTRIAL COMMERCIAL INCINERATORS	0.38	LB/TON	2.380	0.000	2.380	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
ASPHALT BATCHING	0.47	LB/TON	0.027	0.014	0.027	0.008S	0.050S	E6 TONS	1480.	118.	740.
EXIST. NEW.	0.47		0.025								
LIME PROCESSING	0.90	LB/TON	1.420	0.710	1.420	0.050S	0.050C	E6 TONS	26.1	13.1	16.4
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	5.270	4.380	5.270	0.020S	0.145S	E6 TONS	4.4	0.88	6.4
EXPLOSIVES - LOW	0.83	LB/TON	65.000	5.200	65.000	0.045S	0.094C	E6 TONS	0.52	0.23	0.76
MIXED FUEL BOILERS - COAL & REFUSE	0.56	LB/TON	60.000	44.800	224.000	0.000S	17.290S	E6 TONS	0.16	0.0	27.0
SEC LEAD - BLAST FURN	0.68	LB/TON	46.600	0.480	48.000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
FIBERGLASS MANUF - TEXTILE	0.70	LB/TON	16.200	0.040	16.200	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
FIBERGLASS MANUF - WOOD	0.70	LB/TON	6.510	0.040	6.510	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
ORCHARD HEATERS	1.00	LB/TON	0.037	0.000	0.037	0.033S	0.028S	E6 TONS	60.0	19.8	16.8
GLASS - OPAL	0.80	LB/TON	4.240	0.000	4.240	0.033S	0.028S	E6 TONS	0.46	0.15	0.13
HYDROFLUORIC ACID	0.98	LB/TON	2.100	0.000	2.100	0.045S	0.049S	E6 TONS	0.45	0.20	0.22

SULFUR DIOXIDE
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	E N	UNCONT E U	P B	P C	A 1975	B 1985		
MIXED FUEL BOILERS - OIL & REFUSE											
MINERAL WASTE	0.58	LB/TON	20.500	4.100	20.500	0.000S	17.290S	E6 TONS	0.036	0.0	6.2
PET REFINERY PROC GAS COMB	0.82	LB/TON	0.020	0.000	0.020	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
EXISTING	0.85	LB/E6 CFT	2490.000	28.600	8260.000	0.031S	0.042C	E12 BTU	0.23	0.071	0.12
NEW	0.85		28.600								

SULFUR DIOXIDE
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS						TONS/YEAR T - T S N 1985	I - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
BLR >250 E6 BTU/HR	27612.	14622.	7311.	8083.	16830.	8518.	8310000.	0.873
BLR 10-250 E6 BTU/HR	6573.	5595.	2797.	2860.	5901.	3323.	2570000.	0.831
COPPER SHELTERS	6854.	2553.	1634.	3264.	3388.	1652.	1730000.	0.990
BOILERS .3-10 MM BTU/HR	3887.	2551.	1607.	1607.	3887.	2219.	1660000.	0.732
PRIMARY ZINC SHELTERS	1674.	1187.	760.	760.	1507.	773.	733000.	0.982
CEMENT PLANTS	1352.	1006.	754.	754.	1332.	998.	334000.	0.579
SULFURIC ACID PLANTS	1897.	720.	396.	623.	489.	466.	23100.	0.250
• BOILERS <.3 MM BTU/HR	525.	394.	316.	316.	525.	316.	209000.	1.000
PRIMARY LEAD SHELTERS	458.	503.	276.	276.	458.	279.	178000.	0.985
• PET REF - FCCU	477.	316.	218.	218.	477.	218.	259000.	1.000
WOOD PULPING NSSC	330.	293.	202.	202.	330.	220.	110000.	0.860
COKE OVENS - BY PRODUCT	220.	200.	144.	144.	220.	219.	930.	0.012
WOOD PULPING SULFITE	167.	148.	102.	102.	167.	113.	54400.	0.841
• PRIMARY ALUMINUM SHELTERS	341.	155.	101.	108.	319.	101.	218000.	1.000
GAS TURBINE ENGINES ELECTRIC UTILITIES	366.	98.8	79.0	79.0	366.	243.	122000.	0.429
INTERNAL COMB ENGS DIESEL DUALFUEL	112.	87.5	70.0	70.0	112.	106.	6200.	0.149
• IRON AND STEEL - SINTERING	121.	94.0	67.7	67.7	121.	67.7	53500.	1.000
• GLASS - SODA LIME	74.7	58.4	39.1	39.1	74.7	39.1	35600.	1.000
SEC LEAD REVERTB FURN	70.4	49.0	37.2	39.1	67.1	37.5	29500.	0.990
WOOD PULPING KRAFT	93.9	51.0	35.2	57.5	57.4	46.8	10600.	0.477

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS				T S 1985	T N 1985	T - T S N 1985	1 - E / E N S N S
	T U 1985	T A 1975	1000 TONS/YEAR T E 1985	T UE 1985				
REFINERY FUEL GAS - SULFUR RECOVERY		45.2	31.7	61.9	68.3	50.7	17500.	0.479
* MUNICIPAL INCINERATORS	133.							
OIL AND NAT. GAS PROD-SULFUR RECOVERY	51.8	35.5	21.6	21.6	51.8	21.6	30100.	1.000
COAL CLEANING	50.9	25.8	16.8	21.9	39.0	29.1	9800.	0.444
EXPLOSIVES - HIGH	67.8	30.2	15.1	26.3	35.6	25.3	10200.	0.500
BRICK & RELATED CLAY PRODUCTS	53.0	23.6	13.0	13.0	58.0	16.6	41400.	0.920
* INDUSTRIAL COMMERCIAL INCINERATORS	19.5	15.4	10.3	10.3	19.5	14.0	5500.	0.600
ASPHALT BATCHING	41.9	14.7	9.0	9.0	41.9	9.0	32800.	1.000
LINE PROCESSING	14.3	9.6	8.8	8.8	13.9	11.6	2300.	0.451
GAS TURBINE ENGINES GAS PIPELINE	27.2	16.7	8.4	8.4	27.2	17.8	9400.	0.500
EXPLOSIVES - LOW	24.1	9.8	7.9	7.9	24.1	21.3	2700.	0.169
MIXED FUEL BOILERS - COAL & REFUSE	34.4	14.0	7.7	7.7	34.4	9.8	24500.	0.920
SEC LEAD - BLAST FURN	1762.	2.7	2.7	10.1	472.	353.	116000.	0.253
FIBERGLASS MANUF - TEXTILE	3.3	2.3	1.6	1.8	3.2	1.8	1400.	0.990
FIBERGLASS MANUF - WOOL	9.3	2.9	1.1	1.1	9.3	1.1	8100.	0.998
* ORCHARD HEATERS	3.7	2.5	0.93	0.93	3.7	0.94	2700.	0.994
* GLASS - 6PAL	1.4	1.1	0.74	0.74	1.4	0.74	670.	1.000
* HYDROFLUORIC ACID	0.99	0.77	0.52	0.52	0.99	0.52	470.	1.000
MIXED FUEL BOILERS - OIL & REFUSE	0.69	0.46	0.25	0.25	0.69	0.25	430.	1.000
* MINERAL WOOL	37.2	0.21	0.21	0.21	37.2	7.6	29600.	0.800
	0.083	0.069	0.049	0.049	0.083	0.049	30.0	1.000

SULFUR DIOXIDE

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE

SOURCE	EMISSIONS					TONS/YEAR T-T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985	
PET REFINRY PROC GAS COMB	0.0012	0.000	0.000	0.001	0.000	0.0	-0.000

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SULFUR OXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCENT F	GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
			S	E	N	P	B	C	A	B	C
PLR >250 E6 BTU/HR		LB/E6 BTU	1.900		0.123	1.990	0.050S	0.055C	28011.	14006.	19836.
EXIST.	0.58		0.970								
NEW.	0.58										
COPPER SMELTERS		LB/TON	2503.000		25.000	5000.000	0.036S	0.030C	2.4	0.86	0.83
EXIST.	0.85		2443.000								
NEW.	0.85										
BLR 10-250 E6 BTU/HR		LB/E6 BTU	1.790		0.259	1.830	0.050S	0.014C	19534.	9767.	2914.
EXIST.	0.32		1.530								
NEW.	0.32										
BOILERS 3-10 MM BTU/HR		LB/E6 BTU	0.771		0.207	0.771	0.037S	0.043C	26471.	9794.	13857.
EXIST.	0.25										
NEW.	0.25										
PRIMARY ZINC SMELTERS		LB/TON	2200.000		33.000	2200.000	0.036S	0.035C	1.3	0.47	0.53
EXIST.	0.83		1798.000								
NEW.	0.83										
CEMENT PLANTS		LB/TON	21.700		8.840	21.700	0.025S	0.030C	103.	25.8	35.4
EXIST.	0.90		21.000								
NEW.	0.90										
SULFURIC ACID PLANTS		58-A17 AS	35.000		3.000	55.000	0.045S	0.053C	49.0	22.1	33.1
EXIST.	0.84		4.000								
NEW.	0.84										
BOILERS <3 MM BTU/HR		LB/E6 BTU	0.107		0.000	0.107	0.020S	0.029C	24572.	4914.	8131.
EXIST.	0.30										
NEW.	0.30										
PRIMARY LEAD SMELTERS		LB/TON	1320.000		19.800	1320.000	0.036S	0.000S	0.77	0.28	0.0
EXIST.	0.99		1320.000								
NEW.	0.85										
PET REF - FCCU		LB/TON	0.493		0.000	0.493	0.031S	0.042C	1506.	467.	771.
EXIST.	0.85										
NEW.	0.85										
WOOD PULPING NSSC		LB/TON	143.000		20.000	143.000	0.031S	0.012C	4.2	1.3	0.53
EXIST.	0.98										
NEW.	0.98										
COKE OVENS - BY PRODUCT		LB/TON	5.700		5.630	5.700	0.028S	0.010S	75.5	21.1	7.5
EXIST.	0.93										
NEW.	0.93										
PRIMARY ALUMINUM SMELTERS		LB/TON	56.100		0.000	60.000	0.035S	0.075C	6.0	2.1	6.4
EXIST.	0.92										
NEW.	0.92										
WOOD PULPING SULFITE		LB/TON	126.000		20.000	126.000	0.031S	0.012C	2.4	0.74	0.30
EXIST.	0.98										
NEW.	0.98										
GAS TURBINE ENGINES ELECTRIC UTILITIES		LB/TON	16.600		9.480	16.600	0.020S	0.270S	54.1	10.8	146.
EXIST.	0.22										
NEW.	0.22										
INTERNAL COMB ENGS DIESEL DUALFUEL		LB/TON	16.800		14.300	16.800	0.020S	0.028S	18.0	3.6	5.0
EXIST.	0.58										
NEW.	0.58										
IRON AND STEEL - SINTERING		LB/TON	3.000		0.000	3.000	0.028S	0.029S	69.6	19.5	20.2
EXIST.	0.90										
NEW.	0.90										
REFINERY FUEL GAS - SULFUR RECOVERY		LB/TON	38.400		20.000	75.000	0.030S	0.042C	3.6	1.1	1.8
EXIST.	0.66										
NEW.	0.66										

SULFUR OXIDE
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCENT E	GROWTH RATES DECIMAL/YR			UNITS/YR	INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E _S	EMISSION E _N		P	B	C		A 1975	B 1985	C 1985
WOOD PULPING KRAFT	0.98	LB/TON	3.060	1.600	5.000	0.031S	0.012C	0.012C	E6 TONS	34.0	10.5	4.3
GLASS - SODA LIME	0.80	LB/TON	4.240	0.000	4.240	0.033S	0.028S	0.028S	E6 TONS	34.4	11.4	9.6
SEC LEAD REVERTB FURN	0.68	LB/TON	202.000	2.120	212.000	0.024S	0.032C	0.032C	E6 TONS	0.71	0.17	0.26
COAL CLEANING	0.59	LB/TON	0.770	0.330	1.340	0.050S	0.029S	0.029S	E6 TONS	133.	66.5	38.6
EXIST. NEW.	0.59	LB/TON	0.660									
OIL AND NAT. GAS PROD-SULFUR RECOVERY	0.50	LB/TON	36.000	20.000	47.000	0.035S	0.042C	0.042C	E6 TONS	2.9	1.0	1.5
MUNICIPAL INCINERATORS	0.56	LB/TON	3.900	0.000	3.900	0.039S	0.046S	0.046S	E6 TONS	32.5	12.7	14.9
EXPLOSIVES - HIGH	0.83	LB/TON	31.000	2.480	31.000	0.045S	0.094C	0.094C	E6 TONS	1.8	0.83	2.7
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	1.077	0.431	1.077	0.033S	0.027S	0.027S	E6 TONS	35.7	11.8	9.6
FIXED FUEL BOILERS - COAL & REFUSE	0.58	LB/TON	60.000	44.800	224.000	0.000S	17.290S	17.290S	E6 TONS	0.16	0.0	27.0
INDUSTRIAL COMMERCIAL INCINERATORS	0.38	LB/TON	2.380	0.000	2.380	0.039S	0.110C	0.110C	E6 TONS	32.6	12.7	60.0
ASPHALT BATCHING	0.47	LB/TON	0.027	0.014	0.027	0.008S	0.050S	0.050S	E6 TONS	1480.	118.	740.
EXIST. NEW.	0.47	LB/TON	0.025									
LIME PROCESSING	0.90	LB/TON	1.420	0.710	1.420	0.050S	0.050C	0.050C	E6 TONS	26.1	13.1	16.4
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	5.270	4.780	5.270	0.020S	0.145S	0.145S	E6 TONS	4.4	0.88	6.4
EXPLOSIVES - LOW	0.83	LB/TON	65.000	5.200	65.000	0.045S	0.094C	0.094C	E6 TONS	0.52	0.23	0.76
SEC LEAD - BLAST FURN	0.68	LB/TON	46.600	0.480	48.000	0.024S	0.032C	0.032C	E6 TONS	0.15	0.036	0.055
FIBERGLASS MANUF - TEXTILE	0.70	LB/TON	16.200	0.040	16.200	0.063S	0.122C	0.122C	E6 TONS	0.52	0.32	1.1
FIBERGLASS MANUF - W08L	0.70	LB/TON	6.510	0.040	6.510	0.063S	0.042C	0.042C	E6 TONS	1.1	0.68	0.55
BRICKARJ HEATERS	1.00	LB/TON	0.037	0.000	0.037	0.033S	0.028S	0.028S	E6 TONS	60.0	19.8	16.8
GLASS - 0PAL	0.80	LB/TON	4.240	0.000	4.240	0.033S	0.028S	0.028S	E6 TONS	0.46	0.15	0.13
HYDROFLUORIC ACID	0.98	LB/TON	2.100	0.000	2.100	0.045S	0.049S	0.049S	E6 TONS	0.45	0.20	0.22

SULFUR OXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	E N	U	P B	P C	A 1975	B 1985	
MIXED FUEL BOILERS - OIL & REFUSE										
	0.58	LB/TON	20.500	4.100	20.500	0.000S	17.290S	0.036	0.0	6.2
MINERAL WOOL										
	0.82	LB/TON	0.020	0.000	0.020	0.029S	0.020S	8.4	2.5	1.7
PET REFRY PROC GAS COMB										
EXIST-	0.85	LB/E6 CFT	2.90.000	28.600	8260.000	0.031S	0.042C	0.23	0.071	0.12
NEW-	0.85		28.600							

SULFUR OXIDE
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS						TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
BLR >250 E6 BTU/HR	27612.	14622.	7311.	8083.	16830.	8518.	8310000.	0.873
COPPER SHELTERS	6854.	2553.	1634.	3264.	3388.	1652.	1730000.	0.990
BLR 10-250 E6 BTU/HR	6573.	5595.	2797.	2860.	5901.	3323.	2570000.	0.831
BOILERS .3-10 MM BTU/HR	3887.	2551.	1607.	1607.	3887.	2219.	1660000.	0.732
PRIMARY ZINC SHELTERS	1674.	1187.	760.	760.	1507.	773.	733000.	0.982
CEMENT PLANTS	1352.	1006.	754.	754.	1332.	998.	334000.	0.579
SULFURIC ACID PLANTS	1897.	720.	396.	623.	489.	466.	23100.	0.250
* BOILERS <.3 MM BTU/HR	525.	394.	316.	316.	525.	316.	209000.	1.000
PRIMARY LEAD SHELTERS	458.	503.	276.	276.	458.	279.	178000.	0.985
* PET REF - FCCU	477.	316.	218.	218.	477.	218.	259000.	1.000
W06D PULPING NSSC	330.	293.	202.	202.	330.	220.	110000.	0.860
COKE OVENS - BY PRODUCT	220.	200.	144.	144.	220.	219.	930.	0.012
* PRIMARY ALUMINUM SHELTERS	341.	155.	101.	108.	319.	101.	218000.	1.000
W06D PULPING SULFITE	167.	148.	102.	102.	167.	113.	54400.	0.841
GAS TURBINE ENGINES	366.	98.8	79.0	79.0	366.	243.	122000.	0.429
INTERNAL COMB ENGS DIESEL DUALFUEL	112.	87.5	70.0	70.0	112.	106.	6200.	0.149
* IRON AND STEEL - SINTERING	121.	94.0	67.7	67.7	121.	67.7	53500.	1.000
REFINERY FUEL GAS - SULFUR RECOVERY	133.	45.2	31.7	61.9	68.3	50.7	17500.	0.479
W06D PULPING KRAFT	93.9	51.0	35.2	57.5	57.4	46.8	10600.	0.477
* GLASS - SODA LIME	74.7	58.4	39.1	39.1	74.7	39.1	35600.	1.000

SOURCE

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SULFUR OXIDE
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T-T S N 1985	1 - E/E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985	
PET REFINRY PROC GAS COMB	0.0012	0.000	0.000	0.001	0.000	0.000	-0.000

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SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			UNCONT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION			
			ALLOWABLE E	S	N		P	B	C	A	B	C	
													E
BLR >250 E6 BTU/HR													
EXIST.	0.58	LB/E6 BTU	1.80G	0.123	1.990	0.050S	0.055C	E12 BTU	28011.	14006.	19836.		
NEW.	0.58		0.970										
BLR 10-250 E6 BTU/HR													
EXIST.	0.32	LB/E6 BTU	1.790	0.259	1.830	0.050S	0.014C	E12 BTU	19534.	9767.	2914.		
NEW.	0.32		1.530										
BOILERS 3-10 MM BTU/HR													
EXIST.	0.25	LB/E6 BTU	0.771	0.207	0.771	0.037S	0.043C	E12 BTU	26471.	9794.	13857.		
COPPER SHELTERS													
EXIST.	0.85	LB/TON	2503.000	25.000	5000.000	0.036S	0.030C	E6 TONS	2.4	0.86	0.83		
NEW.	0.85		2443.000										
PRIMARY ZINC SHELTERS													
EXIST.	0.83	LB/TON	2200.000	33.000	2200.000	0.036S	0.035C	E6 TONS	1.3	0.47	0.53		
NEW.	0.83		1798.000										
CEMENT PLANTS													
EXIST.	0.90	LB/TON	21.700	8.840	21.700	0.025S	0.030C	E6 TONS	103.	25.8	35.4		
NEW.	0.90		21.000										
BOILERS <.3 MM BTU/HR													
SULFURIC ACID PLANTS													
EXIST.	0.30	LB/E6 BTU	0.107	0.000	0.107	0.020S	0.029C	E12 BTU	24572.	4914.	8131.		
NEW.	0.84	58#17 AS	35.000	3.000	55.000	0.045S	0.053C	E6 TONS	49.0	22.1	33.1		
PET REF - FCCU													
EXIST.	0.84		4.000										
PIVED FUEL BOILERS - COAL & REFUSE													
EXIST.	0.85	LB/TON	0.493	0.000	0.493	0.031S	0.042C	E6 TONS	1506.	467.	771.		
NEW.	0.58	LB/TON	60.000	44.800	224.000	0.000S	17.290S	E6 TONS	0.16	0.0	27.0		
PRIMARY LEAD SHELTERS													
EXIST.	0.99	LB/TON	1320.000	19.800	1320.000	0.036S	0.000S	E6 TONS	0.77	0.28	0.0		
NEW.	0.85		1320.000										
GAS TURBINE ENGINES													
EXIST.	0.22	LB/TON	16.600	9.480	16.600	0.020S	0.270S	E6 TONS	54.1	10.8	146.		
NEW.	0.98												
WROD PULPING NSSC													
EXIST.	0.98	LB/TON	143.000	20.000	143.000	0.031S	0.012C	E6 TONS	4.2	1.3	0.53		
NEW.	0.92	LB/TON	56.100	0.000	60.000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4		
PRIMARY ALUMINUM SHELTERS													
EXIST.	0.93	LB/TON	5.700	5.630	5.700	0.028S	0.010S	E6 TONS	75.5	21.1	7.5		
NEW.	0.98												
COKE OVENS - BY PRODUCT													
EXIST.	0.90	LB/TON	126.000	20.000	126.000	0.031S	0.012C	E6 TONS	2.4	0.74	0.30		
NEW.	0.90	LB/TON	3.000	0.000	3.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2		
PRIMARY ZINC SHELTERS													
EXIST.	0.83	LB/TON	2200.000	33.000	2200.000	0.036S	0.035C	E6 TONS	1.3	0.47	0.53		
NEW.	0.83		1798.000										
CEMENT PLANTS													
EXIST.	0.90	LB/TON	21.700	8.840	21.700	0.025S	0.030C	E6 TONS	103.	25.8	35.4		
NEW.	0.90		21.000										
BOILERS <.3 MM BTU/HR													
SULFURIC ACID PLANTS													
EXIST.	0.30	LB/E6 BTU	0.107	0.000	0.107	0.020S	0.029C	E12 BTU	24572.	4914.	8131.		
NEW.	0.84	58#17 AS	35.000	3.000	55.000	0.045S	0.053C	E6 TONS	49.0	22.1	33.1		
PET REF - FCCU													
EXIST.	0.84		4.000										
PIVED FUEL BOILERS - COAL & REFUSE													
EXIST.	0.85	LB/TON	0.493	0.000	0.493	0.031S	0.042C	E6 TONS	1506.	467.	771.		
NEW.	0.58	LB/TON	60.000	44.800	224.000	0.000S	17.290S	E6 TONS	0.16	0.0	27.0		
PRIMARY LEAD SHELTERS													
EXIST.	0.99	LB/TON	1320.000	19.800	1320.000	0.036S	0.000S	E6 TONS	0.77	0.28	0.0		
NEW.	0.85		1320.000										
GAS TURBINE ENGINES													
EXIST.	0.22	LB/TON	16.600	9.480	16.600	0.020S	0.270S	E6 TONS	54.1	10.8	146.		
NEW.	0.98												
WROD PULPING NSSC													
EXIST.	0.98	LB/TON	143.000	20.000	143.000	0.031S	0.012C	E6 TONS	4.2	1.3	0.53		
NEW.	0.92	LB/TON	56.100	0.000	60.000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4		
PRIMARY ALUMINUM SHELTERS													
EXIST.	0.93	LB/TON	5.700	5.630	5.700	0.028S	0.010S	E6 TONS	75.5	21.1	7.5		
NEW.	0.98												
COKE OVENS - BY PRODUCT													
EXIST.	0.90	LB/TON	126.000	20.000	126.000	0.031S	0.012C	E6 TONS	2.4	0.74	0.30		
NEW.	0.90	LB/TON	3.000	0.000	3.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2		
PRIMARY ZINC SHELTERS													
EXIST.	0.83	LB/TON	2200.000	33.000	2200.000	0.036S	0.035C	E6 TONS	1.3	0.47	0.53		
NEW.	0.83		1798.000										
CEMENT PLANTS													
EXIST.	0.90	LB/TON	21.700	8.840	21.700	0.025S	0.030C	E6 TONS	103.	25.8	35.4		
NEW.	0.90		21.000										
BOILERS <.3 MM BTU/HR													
SULFURIC ACID PLANTS													
EXIST.	0.30	LB/E6 BTU	0.107	0.000	0.107	0.020S	0.029C	E12 BTU	24572.	4914.	8131.		
NEW.	0.84	58#17 AS	35.000	3.000	55.000	0.045S	0.053C	E6 TONS	49.0	22.1	33.1		
PET REF - FCCU													
EXIST.	0.84		4.000										
PIVED FUEL BOILERS - COAL & REFUSE													
EXIST.	0.85	LB/TON	0.493	0.000	0.493	0.031S	0.042C	E6 TONS	1506.	467.	771.		
NEW.	0.58	LB/TON	60.000	44.800	224.000	0.000S	17.290S	E6 TONS	0.16	0.0	27.0		
PRIMARY LEAD SHELTERS													
EXIST.	0.99	LB/TON	1320.000	19.800	1320.000	0.036S	0.000S	E6 TONS	0.77	0.28	0.0		
NEW.	0.85		1320.000										
GAS TURBINE ENGINES													
EXIST.	0.22	LB/TON	16.600	9.480	16.600	0.020S	0.270S	E6 TONS	54.1	10.8	146.		
NEW.	0.98												
WROD PULPING NSSC													
EXIST.	0.98	LB/TON	143.000	20.000	143.000	0.031S	0.012C	E6 TONS	4.2	1.3	0.53		
NEW.	0.92	LB/TON	56.100	0.000	60.000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4		
PRIMARY ALUMINUM SHELTERS													
EXIST.	0.93	LB/TON	5.700	5.630	5.700	0.028S	0.010S	E6 TONS	75.5	21.1	7.5		
NEW.	0.98												
COKE OVENS - BY PRODUCT													
EXIST.	0.90	LB/TON	126.000	20.000	126.000	0.031S	0.012C	E6 TONS	2.4	0.74	0.30		
NEW.	0.90	LB/TON	3.000	0.000	3.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2		
PRIMARY ZINC SHELTERS													
EXIST.	0.83	LB/TON	2200.000	33.000	2200.000	0.036S	0.035C	E6 TONS	1.3	0.47	0.53		
NEW.	0.83		1798.000										
CEMENT PLANTS													
EXIST.	0.90	LB/TON	21.700	8.840	21.700	0.025S	0.030C	E6 TONS	103.	25.8	35.4		
NEW.	0.90		21.000										
BOILERS <.3 MM BTU/HR													
SULFURIC ACID PLANTS													
EXIST.	0.30	LB/E6 BTU	0.107	0.000	0.107	0.020S	0.029C	E12 BTU	24572.	4914.	8131.		
NEW.	0.84	58#17 AS	35.000	3.000	55.000	0.045S	0.053C	E6 TONS	49.0	22.1	33.1		
PET REF - FCCU													
EXIST.	0.84		4.000										
PIVED FUEL BOILERS - COAL & REFUSE													
EXIST.	0.85	LB/TON	0.493	0.000	0.493	0.031S	0.042C	E6 TONS	1506.	467.	771.		
NEW.	0.58	LB/TON	60.000	44.800	224.000	0.000S	17.290S	E6 TONS	0.16	0.0	27.0		
PRIMARY LEAD SHELTERS													
EXIST.	0.99	LB/TON	1320.000	19.800	1320.000	0.036S	0.000S	E6 TONS	0.77	0.28	0.0		
NEW.	0.85		1320.000										
GAS TURBINE ENGINES													
EXIST.	0.22	LB/TON	16.600	9.480	16.600	0.020S	0.270S	E6 TONS	54.1	10.8	146.		
NEW.	0.98												
WROD PULPING NSSC													
EXIST.	0.98	LB/TON	143.000	20.000	143.000	0.031S	0.012C	E6 TONS	4.2	1.3	0.53		
NEW.	0.92	LB/TON	56.100	0.000	60.000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4		
PRIMARY ALUMINUM SHELTERS													
EXIST.	0.93	LB/TON	5.700	5.630	5.700	0.028S	0.010S	E6 TONS	75.5	21.1	7.5		
NEW.	0.98												
COKE OVENS - BY PRODUCT													
EXIST.	0.90	LB/TON	126.000	20.000	126.000	0.031S	0.012C	E6 TONS	2.4	0.74	0.30		
NEW.	0.90	LB/TON	3.000	0.000	3.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2		
PRIMARY ZINC SHELTERS													
EXIST.	0.83	LB/TON	2200.000	33.000	2200.000	0.036S	0.035C	E6 TONS	1.3	0.47	0.53		
NEW.	0.83		1798.000										
CEMENT PLANTS													
EXIST.	0.90	LB/TON	21.700	8.840	21.700	0.025S	0.030C	E6 TONS	103.	25.8	35.4		
NEW.	0.90		21.000										
BOILERS <.3 MM BTU/HR													
SULFURIC ACID PLANTS													
EXIST.	0.30	LB/E6 BTU	0.107	0.000	0.107	0.020S	0.029C	E12 BTU	24572.	4914.	8131.		
NEW.	0.84	58#17 AS	35.000	3.000	55.000	0.045S	0.053C	E6 TONS	49.0	22.1	33.1		
PET REF - FCCU													
EXIST.	0.84		4.000										

SULFUR OXIDE
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES			CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	EMISSION N	UNCNT E U	DECIMAL/YR P B	P C	A 1975	B 1985	
GLASS - SODA LIME	0.80	LB/TON	4.240	0.000	4.240	0.0335	0.0285	34.4	11.4	9.6
REFINERY FUEL GAS - SULFUR RECOVERY	0.66	LB/TON	38.400	20.000	75.000	0.0305	0.042C	3.6	1.1	1.8
SEC LEAD REVERTB FURN	0.68	LB/TON	202.000	2.120	212.000	0.0245	0.032C	0.71	0.17	0.26
EXPLOSIVES - HIGH	0.83	LB/TON	31.000	2.480	31.000	0.0455	0.094C	1.8	0.83	2.7
WOOD PULPING KRAFT	0.98	LB/TON	3.060	1.600	5.000	0.0315	0.012C	34.0	10.5	4.3
MUNICIPAL INCINERATORS	0.56	LB/TON	3.900	0.000	3.900	0.0395	0.0465	32.5	12.7	14.9
INDUSTRIAL COMMERCIAL INCINERATORS	0.38	LB/TON	2.380	0.000	2.380	0.0395	0.110C	32.6	12.7	60.0
OIL AND NAT. GAS PROD-SULFUR RECOVERY	0.50	LB/TON	36.000	20.000	47.000	0.0355	0.042C	2.9	1.0	1.5
MIXED FUEL BOILERS - OIL & REFUSE	0.58	LB/TON	20.500	4.100	20.500	0.0005	17.2905	0.036	0.0	6.2
COAL CLEANING	0.59	LB/TON	0.770	0.330	1.340	0.0505	0.0295	133.	66.5	38.6
EXIST- NEW-	0.59	LB/TON	0.660							
EXPLOSIVES - LOW	0.83	LB/TON	65.000	5.200	65.000	0.0455	0.094C	0.52	0.23	0.76
LIME PROCESSING	0.90	LB/TON	1.420	0.710	1.420	0.0505	0.050C	26.1	13.1	16.4
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	5.270	4.380	5.270	0.0205	0.1455	4.4	0.88	6.4
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	1.077	0.431	1.077.	0.0335	0.0275	35.7	11.8	9.6
ASPHALT BATCHING	0.47	LB/TON	0.027	0.014	0.027	0.0085	0.0505	1480.	118.	740.
EXIST- NEW-	0.47	LB/TON	0.025							
FIBERGLASS MANUF - TEXTILE	0.70	LB/TON	16.200	0.040	16.200	0.0635	0.122C	0.52	0.32	1.1
FIBERGLASS MANUF - WOOD	0.70	LB/TON	6.510	0.040	6.510	0.0635	0.042C	1.1	0.68	0.55
SEC LEAD - BLAST FURN	0.68	LB/TON	46.600	0.480	48.000	0.0245	0.032C	0.15	0.036	0.055
ORCHARD HEATERS	1.00	LB/TON	0.037	0.000	0.037	0.0335	0.0285	60.0	19.8	16.8
GLASS - OPAL	0.80	LB/TON	4.240	0.000	4.240	0.0335	0.0285	0.46	0.15	0.13

SULFUR OXIDE
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N	UNCONT E U	P B	P C	A 1975	B 1985	C 1985
HYDROFLUORIC ACID										
MINERAL W00L	0.98	LB/T0N	2.100	0.000	2.100	0.045S	0.049S	0.45	0.20	0.22
PET REFRY PR0C GAS COMB	0.82	LB/T0N	0.020	0.000	0.020	0.029S	0.020S	8.4	2.5	1.7
EXIST.	0.85	LB/E6 CFT	2490.000	28.600	8260.000	0.031S	0.042C	0.23	0.071	0.12
NEW.	0.85		28.600							

SULFUR OXIDE

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					T N 1985	TONS/YEAR T - T S N 1985	I - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985			
BLR >250 E6 P/U/HR	27612.	14622.	7311.	8083.	16830.	8518.	8310000.	0.873
BLR 10-250 E6 BTU/HR	6573.	5595.	2797.	2860.	5901.	3323.	2570000.	0.831
BOILERS .3-10 MM BTU/HR	3887.	2551.	1607.	1607.	3887.	2219.	1660000.	0.732
COPPER SHELTERS	6854.	2553.	1634.	3264.	3388.	1652.	1730000.	0.990
PRIMARY ZINC SHELTERS	1674.	1187.	760.	760.	1507.	773.	733000.	0.982
CEMENT PLANTS	1352.	1006.	754.	754.	1332.	998.	334000.	0.579
* BOILERS <.3 MM BTU/HR	525.	394.	316.	316.	525.	316.	209000.	1.000
SULFURIC ACID PLANTS	1897.	720.	396.	623.	489.	466.	23100.	0.250
* PET REF - FCCU	477.	316.	218.	218.	477.	218.	259000.	1.000
MIXED FUEL BOILERS - COAL & REFUSE	1762.	2.7	2.7	10.1	472.	353.	118000.	0.253
PRIMARY LEAD SHELTERS	458.	503.	276.	276.	458.	279.	178000.	0.985
GAS TURBINE ENGINES ELECTRIC UTILITIES	366.	98.8	79.0	79.0	366.	243.	122000.	0.429
WOOD PULPING NSSC	330.	293.	202.	202.	330.	220.	110000.	0.860
* PRIMARY ALUMINUM SHELTERS	341.	155.	101.	108.	319.	101.	218000.	1.000
COKE OVENS - BY PRODUCT	220.	200.	144.	144.	220.	219.	930.	0.012
WOOD PULPING SULFITE	167.	148.	102.	102.	167.	113.	54400.	0.841
* IRON AND STEEL - SINTERING	121.	94.0	67.7	67.7	121.	67.7	53500.	1.000
INTERNAL COMB ENGS DIESEL DUALFUEL	112.	87.5	70.0	70.0	112.	106.	6200.	0.149
* GLASS - SODA LIME	74.7	58.4	39.1	39.1	74.7	39.1	35600.	1.000
REFINERY FUEL GAS - SULFUR RECOVERY	133.	45.2	31.7	61.9	68.3	50.7	17500.	0.479

SULFUR OXIDE
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - T S N 1985	I - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985		
SEC LEAD REVERTB FURN	70.4	49.0	37.2	39.1	67.1	29500.	0.990
EXPLOSIVES - HIGH	58.0	23.6	13.0	13.0	58.0	41400.	0.920
WOOD PULPING KRAFT	93.9	51.0	35.2	57.5	57.4	10600.	0.477
* MUNICIPAL INCINERATORS	51.8	35.5	21.6	21.6	51.8	30100.	1.000
* INDUSTRIAL COMMERCIAL INCINERATORS	41.9	14.7	9.0	9.0	41.9	32800.	1.000
OIL AND NAT. GAS PROD-SULFUR RECOVERY	50.9	25.8	16.8	21.9	39.0	9800.	0.444
MIXED FUEL BOILERS - OIL & REFUSE	37.2	0.21	0.21	0.21	37.2	29600.	0.800
COAL CLEANING	67.8	30.2	15.1	26.3	35.6	10200.	0.500
EXPLOSIVES - LOW	34.4	14.0	7.7	7.7	34.4	24500.	0.920
LIME PROCESSING	27.2	16.7	8.4	8.4	27.2	9400.	0.500
GAS TURBINE ENGINES GAS PIPELINE	24.1	9.8	7.9	7.9	24.1	2700.	0.169
BRICK & RELATED CLAY PRODUCTS	19.5	15.4	10.3	10.3	19.5	5500.	0.600
ASPHALT BATCHING	14.3	9.6	8.8	8.8	13.9	2300.	0.451
FIBERGLASS MANUF - TEXTILE	9.3	2.9	1.1	1.1	9.3	8100.	0.998
FIBERGLASS MANUF - WOOL	3.7	2.5	0.93	0.93	3.7	2700.	0.994
SEC LEAD - BLAST FURN	3.3	2.3	1.8	1.8	3.2	1400.	0.990
* ORCHARD HEATERS	1.4	1.1	0.74	0.74	1.4	670.	1.000
* GLASS - 8PAL	0.99	0.77	0.52	0.52	0.99	470.	1.000
* HYDROFLUORIC ACID	0.69	0.46	0.25	0.25	0.69	430.	1.000
* MINERAL WOOL	0.083	0.069	0.049	0.049	0.083	30.0	1.000

SULFUR OXIDE
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					T - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T - T S N 1985
PET REFINRY PROC GAS COMB	0.0012	0.000	0.000	0.001	0.000	0.000

$$\underline{T_S - T_N}$$

SULFUR DIOXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCENT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			ALLOWABLE E	UN N		P	B	C	A	B	C
			S		U				1975	1985	1985
									UNITS/YR		
BLR >250 E6 BTU/HR											
EXIST*	0.58	LB/E6 BTU	1.500	0.123	1.990	0.050S	0.055C	0.055C	28011.	14006.	19836.
NEW*	0.58		0.970								
BLR 10-250 E6 BTU/HR											
EXIST*	0.32	LB/E6 BTU	1.790	0.259	1.830	0.050S	0.014C	0.014C	19534.	9767.	2914.
NEW*	0.32		1.530								
COPPER SMELTERS											
EXIST*	0.85	LB/TON	2503.000	25.000	5000.000	0.036S	0.030C	0.030C	2.4	0.86	0.83
NEW*	0.85		2443.000								
BAILERS 3-10 MM BTU/HR											
EXIST*	0.25	LB/E6 BTU	0.771	0.207	0.771	0.037S	0.043C	0.043C	26471.	9794.	13857.
NEW*	0.83		1798.000								
PRIMARY ZINC SMELTERS											
EXIST*	0.83	LB/TON	2200.000	33.000	2200.000	0.036S	0.035C	0.035C	1.3	0.47	0.53
NEW*	0.83		1798.000								
CEMENT PLANTS											
EXIST*	0.90	LB/TON	21.700	8.840	21.700	0.025S	0.030C	0.030C	103.	25.8	35.4
NEW*	0.90		21.000								
PET REF - FCCU											
EXIST*	0.85	LB/TON	0.493	0.000	0.493	0.031S	0.042C	0.042C	1506.	467.	771.
NEW*	0.92		56.100								
PRIMARY ALUMINUM SHELTERS											
EXIST*	0.30	LB/E6 BTU	0.107	0.000	0.107	0.020S	0.029C	0.029C	24572.	4914.	8131.
NEW*	0.99		1320.000								
GAS TURBINE ENGINES											
EXIST*	0.85	LB/TON	1320.000	19.800	1320.000	0.036S	0.000S	0.000S	0.77	0.28	0.0
NEW*	0.22		16.600								
FIXED FUEL BOILERS - COAL & REFUSE											
EXIST*	0.58	LB/TON	60.000	9.480	16.600	0.020S	0.270S	0.270S	54.1	10.8	146.
NEW*	0.98		143.000								
WOOD PULPING NSSC											
EXIST*	0.98	LB/TON	126.000	44.800	224.000	0.000S	17.290S	17.290S	0.16	0.0	27.0
NEW*	0.98		3.000								
IRON AND STEEL - SINTERING											
EXIST*	0.83	LB/TON	31.000	20.000	143.000	0.031S	0.012C	0.012C	4.2	1.3	0.53
NEW*	0.80		4.240								
EXPLOSIVES - HIGH											
EXIST*	0.80	LB/TON	4.240	20.000	126.000	0.031S	0.012C	0.012C	2.4	0.74	0.30
NEW*	0.38		2.380								
INDUSTRIAL COMMERCIAL INCINERATORS											
EXIST*	0.38	LB/TON	2.380	0.000	2.380	0.039S	0.094C	0.094C	1.8	0.83	2.7
NEW*	0.38		2.380								
GLASS - SODA LIME											
EXIST*	0.38	LB/TON	2.380	0.000	2.380	0.039S	0.028S	0.028S	34.4	11.4	9.6
NEW*	0.38		2.380								
INDUSTRIAL COMMERCIAL INCINERATORS											
EXIST*	0.38	LB/TON	2.380	0.000	2.380	0.039S	0.110C	0.110C	32.6	12.7	60.0
NEW*	0.38		2.380								

SULFUR OXIDE
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION ALLOWABLE E _S	EMISSION RATES			UNCONT E _U	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
				E _N	E _P	E _C		P _B	P _C	P _C	A ₁₉₇₅	B ₁₉₈₅	C ₁₉₈₅
MUNICIPAL INCINERATORS	0.56	LB/TON	3.900	0.000	0.039S	0.046S	3.900	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
FIXED FUEL BOILERS - OIL & REFUSE	0.58	LB/TON	20.500	4.100	0.000S	17.290S	20.500	0.000S	17.290S	E6 TONS	0.036	0.0	6.2
SEC LEAD REVERTB FURN	0.68	LB/TON	202.000	2.120	0.024S	0.032C	212.000	0.024S	0.032C	E6 TONS	0.71	0.17	0.26
EXPLOSIVES - LOW	0.83	LB/TON	65.000	5.200	0.045S	0.094C	65.000	0.045S	0.094C	E6 TONS	0.52	0.23	0.76
SULFURIC ACID PLANTS	EXIST. NEW	58-117 AS	35.000 4.000	3.000	0.045S	0.053C	55.000	0.045S	0.053C	E6 TONS	49.0	22.1	33.1
REFINERY FUEL GAS - SULFUR RECOVERY	0.66	LB/TON	38.400	20.000	0.030S	0.042C	75.000	0.030S	0.042C	E6 TONS	3.6	1.1	1.8
WOOD PULPING KRAFT	0.98	LB/TON	3.060	1.600	0.031S	0.012C	5.000	0.031S	0.012C	E6 TONS	34.0	10.5	4.3
COAL CLEANING	EXIST. NEW	LB/TON	0.770 0.660	0.330	0.050S	0.029S	1.340	0.050S	0.029S	E6 TONS	133.	66.5	38.6
OIL AND NAT. GAS PROD-SULFUR RECOVERY	0.50	LB/TON	36.000	20.000	0.035S	0.042C	47.000	0.035S	0.042C	E6 TONS	2.9	1.0	1.5
LIME PROCESSING	0.90	LB/TON	1.420	0.710	0.050S	0.050C	1.420	0.050S	0.050C	E6 TONS	26.1	13.1	16.4
FIBERGLASS MANUF - TEXTILE	0.70	LB/TON	16.200	0.040	0.063S	0.122C	16.200	0.063S	0.122C	E6 TONS	0.52	0.32	1.1
INTERNAL COMB ENGS DIESEL DUALFUEL	0.58	LB/TON	16.800	14.300	0.020S	0.028S	16.800	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	1.077	0.431	0.033S	0.027S	1.077	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
FIBERGLASS MANUF - WOOD	0.70	LB/TON	6.510	0.040	0.063S	0.042C	6.510	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	5.270	4.380	0.020S	0.145S	5.270	0.020S	0.145S	E6 TONS	4.4	0.88	6.4
ASPHALT BATCHING	EXIST. NEW	LB/TON	0.027 0.025	0.014	0.008S	0.050S	0.027	0.008S	0.050S	E6 TONS	1480.	118.	740.
SEC LEAD - BLAST FURN	0.68	LB/TON	46.600	0.480	0.024S	0.032C	48.000	0.024S	0.032C	E6 TONS	0.15	0.036	0.055
COKE OVENS - BY PRODUCT	0.93	LB/TON	5.700	5.630	0.028S	0.010S	5.700	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
ORCHARD HEATERS	1.00	LB/TON	0.037	0.000	0.033S	0.028S	0.037	0.033S	0.028S	E6 TONS	60.0	19.8	16.8
GLASS - OPAL	0.80	LB/TON	4.240	0.000	0.033S	0.028S	4.240	0.033S	0.028S	E6 TONS	0.46	0.15	0.13

SULFUR OXIDE
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	E N		P	B	C	A 1975	B 1985	
HYDROFLUORIC ACID	0.98	LB/TON	2.100	0.000	2.100	0.045S	0.049S	E6 TONS	0.45	0.20	0.22
MINERAL W06L	0.82	LB/TON	0.020	0.000	0.020	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
PET REFINRY PROC GAS COMB	0.85	LB/E6 CFT	2490.000	28.600	8260.000	0.031S	0.042C	E12 BTU	0.23	0.071	0.12
EXISTING	0.85										
NEW			28.600								

SULFUR OXIDE
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS							TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985			
SEC LEAD REVERTB FURN	70.4	49.0	37.2	39.1	67.1	37.5	29500.	0.990	
EXPLOSIVES - LOW	34.4	14.0	7.7	7.7	34.4	9.8	24500.	0.920	
SULFURIC ACID PLANTS	1897.	720.	396.	623.	489.	466.	23100.	0.250	
REFINERY FUEL GAS - SULFUR RECOVERY	133.	45.2	31.7	61.9	68.3	50.7	17500.	0.479	
WOOD PULPING KRAFT	93.9	51.0	35.2	57.5	57.4	46.8	10600.	0.477	
COAL CLEANING	67.8	30.2	15.1	26.3	35.6	25.3	10200.	0.500	
OIL AND NAT. GAS PROD-SULFUR RECOVERY	50.9	25.4	16.8	21.9	39.0	29.1	9800.	0.444	
LIME PROCESSING	27.2	16.7	8.4	8.4	27.2	17.8	9400.	0.500	
FIBERGLASS MANUF - TEXTILE	9.3	2.9	1.1	1.1	9.3	1.1	8100.	0.998	
INTERNAL COMB ENGS DIESEL DUALFUEL	112.	87.5	70.0	70.0	112.	106.	6200.	0.149	
BRICK & RELATED CLAY PRODUCTS	19.5	15.4	10.3	10.3	19.5	14.0	5500.	0.600	
FIBERGLASS MANUF - W88L	3.7	2.5	0.93	0.93	3.7	0.94	2700.	0.994	
GAS TURBINE ENGINES GAS PIPELINE	24.1	9.8	7.9	7.9	24.1	21.3	2700.	0.169	
ASPHALT BATCHING	14.3	9.6	8.8	8.8	13.9	11.6	2300.	0.451	
SEC LEAD - BLAST FURN	3.3	2.3	1.6	1.6	3.2	1.8	1400.	0.990	
COKE OVENS - BY PRODUCT	220.	200.	144.	144.	220.	219.	930.	0.012	
* ORCHARD HEATERS	1.4	1.1	0.74	0.74	1.4	0.74	670.	1.000	
* GLASS - OPAL	0.99	0.77	0.52	0.52	0.99	0.52	470.	1.000	
* HYDROFLUORIC ACID	0.69	0.46	0.25	0.25	0.69	0.25	430.	1.000	
* MINERAL W88L	0.083	0.069	0.049	0.049	0.083	0.049	30.0	1.000	

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SULFUR OXIDE
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION			C 1985
			ALLOWABLE E S	UNCON- T E N	P B	P C	A 1975	B 1985			
BLR >250 E6 BTU/HR											
EXIST=	0.58	LB/E6 BTU	1.800	0.123	1.990	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
NEW=	0.58		0.970								
BLR 10-250 E6 BTU/HR											
EXIST=	0.32	LB/E6 BTU	1.790	0.259	1.830	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
NEW=	0.32		1.530								
BOILERS <3-10 MM BTU/HR											
EXIST=	0.25	LB/E6 BTU	0.771	0.207	0.771	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
COPPER SMELTERS											
EXIST=	0.85	LB/TON	2503.000	25.000	5000.000	0.036S	0.030C	E6 TONS	2.4	0.86	0.83
NEW=	0.85		2443.000								
CEMENT PLANTS											
EXIST=	0.90	LB/TON	21.700	8.840	21.700	0.025S	0.030C	E6 TONS	103.	25.8	35.4
NEW=	0.90		21.000								
PRIMARY ZINC SMELTERS											
EXIST=	0.83	LB/TON	2200.000	33.000	2200.000	0.036S	0.035C	E6 TONS	1.3	0.47	0.53
NEW=	0.83		1798.000								
SULFURIC ACID PLANTS											
EXIST=	0.84	58-A17 BS	35.000	3.000	55.000	0.045S	0.053C	E6 TONS	49.0	22.1	33.1
NEW=	0.84		4.000								
MIXED FUEL BOILERS - COAL & REFUSE											
EXIST=	0.58	LB/TON	60.000	44.800	224.000	0.000S	17.290S	E6 TONS	0.16	0.0	27.0
NEW=	0.30		0.107	0.000	0.107	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
PRIMARY LEAD SMELTERS											
EXIST=	0.99	LB/TON	1320.000	19.800	1320.000	0.036S	0.000S	E6 TONS	0.77	0.28	0.0
NEW=	0.85		1320.000								
GAS TURBINE ENGINES											
EXIST=	0.22	LB/TON	16.600	9.480	16.600	0.020S	0.270S	E6 TONS	54.1	10.8	146.
NEW=	0.98		143.000	20.000	143.000	0.031S	0.012C	E6 TONS	4.2	1.3	0.53
COKE OVENS - BY PRODUCT											
EXIST=	0.93	LB/TON	5.700	5.630	5.700	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
NEW=	0.85		0.493	0.000	0.493	0.031S	0.042C	E6 TONS	1506.	467.	771.
PET REF - FCCU											
EXIST=	0.85	LB/TON	126.000	20.000	126.000	0.031S	0.012C	E6 TONS	2.4	0.74	0.30
NEW=	0.98		16.800	14.300	16.800	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
INTERNAL COMB ENGS DIESEL DUALFUEL											
EXIST=	0.58	LB/TON	16.800	14.300	16.800	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
NEW=	0.92		56.100	0.000	60.000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4
PRIMARY ALUMINUM SMELTERS											
EXIST=	0.92	LB/TON	56.100	0.000	60.000	0.035S	0.075C	E6 TONS	6.0	2.1	6.4
NEW=	0.90		3.000	0.000	3.000	0.028S	0.029S	E6 TONS	69.6	19.5	20.2

SULFUR OXIDE

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			UNCONT E	GROWTH RATES DECIMAL/YR			UNITS/YR	CAPACITY/PRODUCTION		
			ALLIABLE E	S	N		P	B	C		A	B	C
REFINERY FUEL GAS - SULFUR RECOVERY	0.66	LB/TON	38.400		20.000	75.000	0.030S	0.042C		E6 TONS	3.6	1.1	1.8
PULPING KRAFT	0.98	LB/TON	3.060		1.600	5.000	0.031S	0.012C		E6 TONS	34.0	10.5	4.3
GLASS - SODA LIME	0.80	LB/TON	4.240		0.000	4.240	0.033S	0.028S		E6 TONS	34.4	11.4	9.6
SEC LEAD REVERTB FURN	0.68	LB/TON	202.000		2.120	212.000	0.024S	0.032C		E6 TONS	0.71	0.17	0.26
OIL AND NAT. GAS PRBD-SULFUR RECOVERY	0.50	LB/TON	36.000		20.000	47.000	0.035S	0.042C		E6 TONS	2.9	1.0	1.5
COAL CLEANING	0.59	LB/TON	0.770		0.330	1.340	0.050S	0.029S		E6 TONS	133.	66.5	38.6
EXIST- NEW-	0.59	LB/TON	0.660										
MUNICIPAL INCINERATORS	0.56	LB/TON	3.900		0.000	3.900	0.039S	0.046S		E6 TONS	32.5	12.7	14.9
GAS TURBINE ENGINES GAS PIPELINE	0.85	LB/TON	5.270		4.380	5.270	0.020S	0.145S		E6 TONS	4.4	0.88	6.4
LIME PROCESSING	0.90	LB/TON	1.420		0.710	1.420	0.050S	0.050C		E6 TONS	26.1	13.1	16.4
EXPLOSIVES - HIGH	0.83	LB/TON	31.000		2.480	31.000	0.045S	0.094C		E6 TONS	1.8	0.83	2.7
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	1.077		0.431	1.077	0.033S	0.027S		E6 TONS	35.7	11.8	9.6
ASPHALT BATCHING	0.47	LB/TON	0.027		0.014	0.027	0.008S	0.050S		E6 TONS	1480.	118.	740.
EXIST- NEW-	0.47	LB/TON	0.025										
EXPLOSIVES - LOW	0.83	LB/TON	65.000		5.200	65.000	0.045S	0.094C		E6 TONS	0.52	0.23	0.76
INDUSTRIAL COMMERCIAL INCINERATORS	0.38	LB/TON	2.380		0.000	2.380	0.039S	0.110C		E6 TONS	32.6	12.7	60.0
PIXED FUEL BOILERS - OIL & REFUSE	0.58	LB/TON	20.500		4.100	20.500	0.000S	17.290S		E6 TONS	0.036	0.0	6.2
SEC LEAD - BLAST FURN	0.68	LB/TON	46.600		0.480	48.000	0.024S	0.032C		E6 TONS	0.15	0.036	0.055
FIBERGLASS MANUF - TEXTILE	0.70	LB/TON	16.200		0.040	16.200	0.063S	0.122C		E6 TONS	0.52	0.32	1.1
FIBERGLASS MANUF - WOOD	0.70	LB/TON	6.510		0.040	6.510	0.063S	0.042C		E6 TONS	1.1	0.68	0.55
ORCHARD HEATERS	1.00	LB/TON	0.037		0.000	0.037	0.033S	0.028S		E6 TONS	60.0	19.8	16.8
GLASS - BPAL	0.80	LB/TON	4.240		0.000	4.240	0.033S	0.028S		E6 TONS	0.46	0.15	0.13

SULFUR DIOXIDE
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E U	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	E N		P B	P C	A 1975	B 1985		
HYDROFLUORIC ACID	0.98	LB/TON	2.100	0.000	2.100	0.0455	0.0495	E6 TONS	0.45	0.20	0.22
MINERAL WOOL	0.82	LB/TON	0.020	0.000	0.020	0.0295	0.0205	E6 TONS	8.4	2.5	1.7
PET REFRY PROC GAS COMB	0.85	LB/E6 CFT	2490.000	28.600	8260.000	0.0315	0.042C	E12 BTU	0.23	0.071	0.12
EXIST- NEW-	0.85		28.600								

SULFUR OXIDE
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					T N 1985	T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985			
BLR >250 E6 BTU/HR	27612.	14622.	7311.	3083.	16830.	8518.	8310000.	0.873
BLR 10-250 E6 BTU/HR	6573.	5595.	2797.	2860.	5901.	3323.	2570000.	0.831
BOILERS 3-10 MM BTU/HR	3887.	2551.	1607.	1607.	3887.	2219.	1660000.	0.732
COPPER SMELTERS	6854.	2553.	1634.	3264.	3388.	1652.	1730000.	0.990
CEMENT PLANTS	1352.	1006.	754.	754.	1332.	998.	334000.	0.579
PRIMARY ZINC SMELTERS	1674.	1187.	760.	760.	1507.	773.	733000.	0.982
SULFURIC ACID PLANTS	1897.	720.	396.	623.	489.	466.	23100.	0.250
MIXED FUEL BOILERS - COAL & REFUSE	1762.	2.7	2.7	10.1	472.	353.	118000.	0.253
* BOILERS <3 MM BTU/HR	525.	394.	316.	316.	525.	316.	209000.	1.000
PRIMARY LEAD SMELTERS	453.	503.	276.	276.	458.	279.	178000.	0.985
GAS TURBINE ENGINES ELECTRIC UTILITIES	366.	98.8	79.0	79.0	366.	243.	122000.	0.429
WOOD PULPING NSSC	330.	293.	202.	202.	330.	220.	110000.	0.860
COKE OVENS - BY PRODUCT	220.	200.	144.	144.	220.	219.	930.	0.012
* PET REF - FCCU	477.	316.	218.	218.	477.	218.	259000.	1.000
WOOD PULPING SULFITE	167.	148.	102.	102.	167.	113.	54400.	0.841
INTERNAL COMB ENGS DIESEL DUALFUEL	112.	87.5	70.0	70.0	112.	106.	6200.	0.149
* PRIMARY ALUMINUM SMELTERS	341.	155.	101.	108.	319.	101.	218000.	1.000
* IRON AND STEEL - SINTERING	121.	94.0	67.7	67.7	121.	67.7	53500.	1.000
REFINERY FUEL GAS - SULFUR RECOVERY	133.	45.2	31.7	61.9	68.3	50.7	17500.	0.479
WOOD PULPING KRAFT	93.9	51.0	35.2	57.5	57.4	46.8	10600.	0.477

SULFUR OXIDE

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS				TONS/YEAR T-S-N 1985	1 - E/E N S	
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985			T S 1985
* GLASS - SODA LIME	74.7	58.4	39.1	39.1	74.7	39.1	1.000
SEC LEAD REVERTB FURN	70.4	49.0	37.2	39.1	67.1	37.5	0.990
OIL AND NAT. GAS PROD-SULFUR RECOVERY	50.9	25.8	16.8	21.9	39.0	29.1	0.444
COAL CLEANING	67.8	30.2	15.1	26.3	35.6	25.3	0.500
* MUNICIPAL INCINERATORS	51.8	35.5	21.6	21.6	51.8	21.6	1.000
GAS TURBINE ENGINES GAS PIPELINE	24.1	9.8	7.9	7.9	24.1	21.3	0.169
LIME PROCESSING	27.2	16.7	8.4	8.4	27.2	17.8	0.500
EXPLOSIVES - HIGH	58.0	23.6	13.0	13.0	58.0	16.6	0.920
BRICK & RELATED CLAY PRODUCTS	19.5	15.4	10.3	10.3	19.5	14.0	0.600
ASPHALT BATCHING	14.3	9.6	8.8	8.8	13.9	11.6	0.451
EXPLOSIVES - LOW	34.4	14.0	7.7	7.7	34.4	9.8	0.920
* INDUSTRIAL COMMERCIAL INCINERATORS	41.9	14.7	9.0	9.0	41.9	9.0	1.000
MIXED FUEL BOILERS - OIL & REFUSE	37.2	0.21	0.21	0.21	37.2	7.6	0.800
SEC LEAD - BLAST FURN	3.3	2.3	1.8	1.8	3.2	1.8	0.990
FIBERGLASS MANUF - TEXTILE	9.3	2.9	1.1	1.1	9.3	1.1	0.998
FIBERGLASS MANUF - WOOL	3.7	2.5	0.93	0.93	3.7	0.94	0.994
* BRICKARD HEATERS	1.4	1.1	0.74	0.74	1.4	0.74	1.000
* GLASS - OPAL	0.97	0.77	0.52	0.52	0.99	0.52	1.000
* HYDROFLUORIC ACID	0.69	0.46	0.25	0.25	0.69	0.25	1.000
* MINERAL WOOL	0.083	0.069	0.049	0.049	0.083	0.049	1.000

SULFUR DIOXIDE
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985		
PET REFINRY PROC GAS COMB	0.0012	0.000	0.000	0.001	0.000	0.0	-0.000

RANKED DATA FOR HC

A

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES			CAPACITY/PRODUCTION			INDUSTRY
			ALLOWABLE E	N	UNCONT E	DECIMAL/YR		A	B	C		
						P	B				P	
BOILERS >250 MM BTU/HR	0.58	LB/E6 BTU	0.019	0.000	0.019	0.050S	0.055C	E12 BTU	28011.	14006.	19836.	
BOILERS - 3-10 MM BTU/HR	0.25	LB/E6 BTU	0.042	0.000	0.042	0.037S	0.043C	E12 BTU	26471.	9794.	13857.	
BOILERS <.3 MM BTU/HR	0.30	LB/E6 BTU	0.019	0.000	0.019	0.020S	0.029C	E12 BTU	24572.	4914.	8131.	
PLYWOOD-VENEER	0.95	LB/TON	0.001	0.000	0.001	0.050S	0.025C	E6 TONS	22600.	11300.	6330.	
BOILERS 10-250 MM BTU/HR	0.32	LB/E6 BTU	0.045	0.000	0.045	0.050S	0.014C	E12 BTU	19534.	9767.	2914.	
PETRLM STRG CRD	0.11	WRKNG	0.071	0.048	0.084	0.031S	0.042C	E6 BBL	6000.	1860.	3054.	
EXIST.	0.85	LB/BARREL	0.048	0.000	0.048	0.031S	0.042C	E6 BBL	6000.	1860.	3054.	
NEW	0.85	LB/BARREL	0.048	0.000	0.048	0.031S	0.042C	E6 BBL	6000.	1860.	3054.	
PET REF - MISC PT SOURCE	0.85	LB/TON	0.586	0.293	0.586	0.031S	0.042C	E6 TONS	4937.	1530.	2527.	
PETR - SERVICE STATIONS	0.85	LB/BARREL	0.229	0.034	0.378	0.031S	0.035C	E6 BBL	2950.	915.	1195.	
PETRLM STRG GASOLINE WRKNG	0.85	LB/BARREL	0.071	0.012	0.116	0.031S	0.035C	E6 BBL	2950.	915.	1211.	
EXIST.	0.85	LB/BARREL	0.071	0.012	0.116	0.031S	0.035C	E6 BBL	2950.	915.	1211.	
NEW	0.85	LB/BARREL	0.071	0.012	0.116	0.031S	0.035C	E6 BBL	2950.	915.	1211.	
PETR. - REFUELING	0.85	LB/BARREL	0.504	0.076	0.504	0.031S	0.035C	E6 BBL	2950.	915.	1195.	
PET REF - VACUUM DIST.	0.85	LB/TON	0.130	0.000	0.130	0.031S	0.042C	E6 TONS	1846.	572.	945.	
CEGREASING	0.82	LB/TON	1.150	0.150	1.500	0.042S	0.032C	E6 TONS	1626.	683.	602.	
PETR. - TRANSFER - GAS	0.85	LB/BARREL	0.071	0.012	0.116	0.042S	0.035C	E6 BBL	1560.	651.	632.	
ASPHALT BATCHING	0.47	LB/TON	0.167	0.000	0.167	0.008S	0.050S	E6 TONS	1480.	118.	740.	
PETR. - TRANSFER - CRUDE	0.85	LB/BARREL	0.071	0.048	0.084	0.029S	0.042C	E6 BBL	1440.	418.	737.	
INDUSTRIAL SURFACE COATING	0.82	LB/TON	5.340	0.655	6.550	0.042S	0.078C	E6 TONS	867.	364.	971.	
PETRO. - TANKS - DR - BREATH	1.00	LB/DARREL	0.431	0.286	0.593	0.031S	0.032C	E6 BBL	643.	199.	238.	
PETRLM STRG CRD	1.00	LB/BARREL	2.290	1.560	2.880	0.031S	0.042C	E6 BBL	589.	183.	300.	
EXIST.	1.00	LB/BARREL	2.290	1.560	2.880	0.031S	0.042C	E6 BBL	589.	183.	300.	
NEW	1.00	LB/BARREL	2.290	1.560	2.880	0.031S	0.042C	E6 BBL	589.	183.	300.	
PETRLM STRG GASOLINE BRTHNG	1.00	LB/BARREL	1.490	0.290	2.850	0.031S	0.035C	E6 BBL	477.	148.	196.	
EXIST.	1.00	LB/BARREL	1.490	0.290	2.850	0.031S	0.035C	E6 BBL	477.	148.	196.	
NEW	1.00	LB/BARREL	1.490	0.290	2.850	0.031S	0.035C	E6 BBL	477.	148.	196.	

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E	N	U	P	B	C	A 1975	B 1985	C 1985
PETRLM STRG JET FUEL WRKNG EXIST. NEW.	0.85 0.85	LB/BARREL	0.090 0.054	0.054	0.116	0.031S	0.031S	0.094C	276.	85.6	402.
PETR. - TRANSFER - JETFUEL											
PETRLM STRG JET FUEL BRTHNG EXIST. NEW.	0.85 1.00	LB/BARREL	0.090 1.000 0.650	0.054 0.650	0.116 1.400	0.042S 0.031S	0.042S 0.031S	0.094C 0.094C	146. 124.	60.9 38.4	213. 181.
LEAD ACID BATTERY PLANTS											
PETR. - TANKS - KER - BREATH Coke ovens - BY PRODUCT	0.76 1.00	LB/PRD UNIT LB/BARREL	0.007 0.435	0.000 0.295	0.009 0.593	0.040S 0.031S	0.040S 0.031S	0.050C 0.000S	80.0 75.8	32.0 23.5	50.3 0.0
PETRLM STRG AV GS WRKNG EXIST. NEW.	0.85 0.85	LB/BARREL	0.090 0.055	0.060 0.055	5.900 0.116	0.028S 0.031S	0.028S 0.031S	0.010S 0.094C	75.5 67.0	21.1 20.8	7.5 97.5
BRCHARD HEATERS											
PETRLM STRG AV GS BRTHNG EXIST. NEW.	1.00 1.00	LB/TON LB/BARREL	9.200 2.060 1.350	0.000 1.350	9.200 2.850	0.033S 0.031S	0.033S 0.031S	0.028S 0.094C	60.0 37.0	19.8 11.5	16.8 53.9
BRICK & RELATED CLAY PRODUCTS											
PETR. - TRANSFER - AVGAS	0.80	LB/TON	0.073	0.000	0.073	0.033S	0.033S	0.027S	35.7	11.8	9.6
WOOD PULPING KRAFT PROCESS	0.85	LB/BARREL	0.090	0.055	0.116	0.042S	0.042S	0.094C	35.6	14.8	51.3
PETRLM STRG SPC NAP WRKNG EXIST. NEW.	0.98 0.85 0.85	LB/TON LB/BARREL	4.690 0.090 0.056	4.240 0.056	4.690 0.116	0.031S 0.031S	0.031S 0.031S	0.012C 0.007C	34.0 33.0	10.5 10.2	4.3 2.4
INDUSTRIAL COMMERCIAL INCINERATORS											
MUNICIPAL INCINERATOR	0.38	LB/TON	2.880	0.000	2.880	0.039S	0.039S	0.110C	32.6	12.7	60.0
INTERNAL COMBUSTION ENGS SPKIGN CORE OVENS	0.56 0.58	LB/TON LB/TON	2.700 56.000	0.000 0.000	2.700 56.000	0.039S 0.020S	0.039S 0.020S	0.046S 0.087S	32.5 25.7	12.7 5.7	14.9 25.0
PETRLM STRG SPC NAP BRTHNG EXIST. NEW.	0.93 1.00	LB/TON LB/BARREL	10.500 1.340 1.300	1.050 1.300	10.500 2.850	0.028S 0.031S	0.028S 0.031S	0.035S 0.007C	23.0 18.2	6.4 5.6	8.0 1.3

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N	UNCERT E U	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
INTERNAL COMB ENGS DIESEL DUALFUEL 0.58		LB/TON	31.300	30.300	31.300	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
PETR. - TRANSFER - SP. NAP. 0.85		LB/BARREL	0.090	0.056	0.116	0.042S	0.007C	E6 BBL	17.7	7.4	1.3
AMMONIA - METHANATOR PLANT 0.83		LB/TON	90.000	0.450	90.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
AMMONIA - REGENERATOR & CO ABSORBER 0.83		LB/TON	90.000	0.450	90.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
AUTOMOBILE ASSEMBLY 0.91		LB/PRD UNIT	12.600	0.420	21.000	0.040S	0.029C	E6 PU	10.6	4.2	3.5
PINERAL WOOL 0.82		LB/TON	2.020	0.870	2.020	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
BEER 0.81		LB/TON	10.900	0.109	10.900	0.040S	0.070C	E6 TONS	7.2	2.9	7.0
VEGETABLE OIL PRODUCTION 0.92		LB/TON	37.900	15.200	38.000	0.028S	0.027S	E6 TONS	6.5	1.8	1.8
PAINT 0.85		LB/TON	30.000	0.300	30.000	0.067S	0.026C	E6 TONS	4.9	3.3	1.5
POLYETHYLENE - LOW DENSITY 0.88		LB/TON	4.200	0.250	25.000	0.006S	0.165C	E6 TONS	4.8	0.29	17.5
FORMALDEHYDE 0.72		LB/TON	22.200	0.280	27.500	0.045S	0.094C	E6 TONS	4.2	1.9	6.1
SPOKED MEAT 0.81		LB/TON	0.350	0.150	0.350	0.040S	0.017C	E6 TONS	3.6	1.4	0.66
ETHYLENE DICHLORIDE 0.62		LB/TON	19.600	0.140	140.000	0.045S	0.090C	E6 TONS	3.3	1.5	4.5
ASFALT BLOWING 0.90		LB/TON	2.500	0.025	2.500	0.042S	0.025S	E6 TONS	3.1	1.3	0.79
POLYVINYL CHLORIDE 0.82		LB/TON	9.600	0.085	17.000	0.000S	0.078C	E6 TONS	2.7	0.0055	3.1
DEEP FAT FRYING 0.81		LB/TON	6.240	0.078	7.750	0.028S	0.043C	E6 TONS	2.6	0.74	1.4
DRY CLEANING 1.00		LB/TON	258.000	9.000	258.000	0.050S	0.018C	E6 TONS	2.4	1.2	0.46
POLYSTYRENE 0.88		LB/TON	4.200	0.120	11.700	0.005S	0.075C	E6 TONS	2.3	0.12	2.5
STYRENE - BUTADIENE RUBBER 0.75		LB/TON	4.200	3.100	4.200	0.003S	0.020C	E6 TONS	2.3	0.070	0.51
CARBON BLACK - FURNACE PROCESS 0.77		LB/TON	570.000	0.570	570.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56
POLYETHYLENE - HIGH DENSITY 1.00		LB/TON	7.400	0.500	50.000	0.000S	0.176C	E6 TONS	1.9	0.0	7.6

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			ALLOWABLE E	N	UNCBNT U	P	B	C	A 1975	B 1985	C 1985
TEXTILE - CARPET MFG	0.86	LB/TON	0.720	0.040	0.800	0.042S	0.053C	E6 TONS	1.8	0.76	1.2
SYNTHETIC FIBERS NYLON	0.72	LB/TON	7.000	0.350	7.000	0.045S	0.127C	E6 TONS	1.7	0.76	3.9
ETHYLENE OXIDE - AIR OXIDATION	0.87	LB/TON	392.000	3.920	392.000	0.045S	0.075C	E6 TONS	1.7	0.76	1.8
POLYPROPYLENE	0.78	LB/TON	0.590	0.003	0.700	0.003S	0.150C	E6 TONS	1.6	0.048	4.9
COFFEE ROASTING	0.85	LB/TON	1.100	0.005	1.100	0.040S	0.000S	E6 TONS	1.5	0.62	0.0
WHISKEY	0.95	LB/PROD UNIT	2.760	0.055	2.760	0.032S	0.060S	E6 PU	1.3	0.42	0.78
VARNISH	0.85	LB/TON	34.900	0.679	67.900	0.067S	0.026C	E6 TONS	1.3	0.86	0.38
SYNTHETIC RESINS PHENOLIC	0.80	LB/TON	5.760	0.075	7.500	0.005S	0.070C	E6 TONS	1.1	0.055	1.1
FIBERGLASS MANUF - W89L	0.70	LB/TON	3.390	0.102	3.390	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
TEXTILE - TEXTURIZING	0.86	LB/TON	0.320	0.230	4.600	0.042S	0.023C	E6 TONS	0.87	0.36	0.22
ACRYLONITRILE	0.90	LB/TON	91.000	0.165	330.000	0.045S	0.095C	E6 TONS	0.83	0.37	1.2
CHARCBAL	0.85	LB/TON	438.000	4.400	438.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42
TEXTILE - HEAT SETTING	0.86	LB/TON	3.054	1.486	10.180	0.042S	0.081C	E6 TONS	0.79	0.33	0.93
SYNTHETIC RESINS UREA-MELANINE	0.80	LB/TON	5.760	0.075	7.500	0.005S	0.073C	E6 TONS	0.74	0.037	0.76
SYNTHETIC RESINS ACRYLIC	0.87	LB/TON	36.000	2.400	240.000	0.045S	0.154C	E6 TONS	0.58	0.26	1.9
SYNTHETIC RESINS ALKYD	0.68	LB/TON	1.710	0.017	1.710	0.045S	0.015C	E6 TONS	0.53	0.24	0.085
SYNTHETIC RESINS ABS-SAN	0.80	LB/TON	5.760	0.075	7.500	0.005S	0.072C	E6 TONS	0.47	0.023	0.47
SYNTHETIC FIBERS ACETATE	0.93	LB/TON	7.000	0.350	7.000	0.045S	0.028C	E6 TONS	0.43	0.19	0.14
PRINTING INK	0.83	LB/TON	48.000	12.000	120.000	0.045S	0.050C	E6 TONS	0.43	0.19	0.27
PTHALIC ANHYDRIDE - 8-XYLENE	0.78	LB/TON	86.600	5.000	130.000	0.020S	0.079C	E6 TONS	0.42	0.084	0.48
AUTOBODY INCINERATORS	0.90	LB/PROD UNIT	1.000	0.460	1.000	0.039S	0.280S	E6 PU	0.29	0.11	0.82

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES DECIMAL/YR		UNITS/YR	CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	EMISSION E N	UNCONT E U	P B	P C	A 1975	B 1985	
PALEIC ANHYDRIDE BENZENE OXID.	1.00	LB/TON	147.000	0.172	172.000	0.045S	0.090C	0.23	0.10	0.31
PETRLM REFINRY PRS GAS CO	0.85	LB/E6 BTU	33.000	0.000	33.000	0.031S	0.042C	0.23	0.070	0.12
SEC ZINC SWEAT	0.82	LB/TON	2.810	0.003	2.810	0.035S	0.039C	0.20	0.069	0.091
FATHOLOGICAL INCINERATOR	0.34	LB/TON	3.800	0.040	3.800	0.039S	0.026C	0.13	0.051	0.038
GRAPHIC ARTS-GRAYURE	0.80	LB/TON	2300.000	2.300	2300.000	0.045S	0.050C	0.12	0.053	0.074
GRAPHIC ARTS - LETTERPRESS	0.80	LB/TON	1500.000	15.000	1500.000	0.045S	0.050C	0.11	0.049	0.069
GRAPHIC ARTS - LITHOGRAPHY	0.80	LB/TON	2500.000	28.000	2800.000	0.045S	0.050C	0.063	0.028	0.040
GRAPHIC ARTS FLEXOGRAPHY	0.80	LB/TON	4800.000	48.000	4800.000	0.045S	0.050C	0.051	0.023	0.032
GRAPHIC ARTS - METAL DECORATING	0.80	LB/TON	3200.000	37.000	3700.000	0.045S	0.050C	0.046	0.021	0.029
DIRECT FIRING OF HEAT	0.62	LB/TON	6136.000	2636.000	6136.000	0.050S	0.033S	0.034	0.017	0.011
SEC MAGNESIUM	0.82	LB/TON	3.390	0.003	3.390	0.035S	0.016C	0.017	0.0061	0.0030

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS							TONS/YEAR T-T S N 1985	I - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985			
* BOILERS >250 MM BTU/HR	264.	154.	77.2	77.2	264.	77.2	186000.	1.000	
* BOILERS .3-10 MM BTU/HR	212.	139.	87.6	87.6	212.	87.6	124000.	1.000	
* BOILERS <.3 MM BTU/HR	93.2	70.0	56.0	56.0	93.2	56.0	37100.	1.000	
PLYWOOD-VEENER	10.3	8.1	4.0	4.0	10.3	4.1	6200.	0.990	
* BOILERS 10-250 MM BTU/HR	162.	141.	70.3	70.3	162.	70.3	91200.	1.000	
PETRLM STRG CRD OIL WKG	323.	181.	125.	148.	225.	225.	0.0	0.000	
PET REF - MISC PT SOURCE	1859.	1230.	848.	848.	1859.	1354.	505000.	0.500	
PETR - SERVICE STATIONS	666.	287.	198.	327.	403.	229.	174000.	0.852	
PETRLM STRG GASOLINE WKG	205.	89.0	61.4	100.	72.3	72.3	0.0	0.000	
PETR. - REFUELING	883.	632.	436.	436.	888.	504.	383000.	0.849	
PET REF - VACUUM DIST.	154.	102.	70.4	70.4	154.	70.4	83700.	0.999	
DEGREASING	1370.	767.	445.	580.	1051.	524.	526000.	0.870	
PETR. - TRANSFER - GAS	103.	47.1	27.4	44.8	66.1	33.8	32300.	0.837	
* ASPHALT BATCHING	87.1	58.1	53.4	53.4	87.1	53.4	33600.	1.000	
PETR. - TRANSFER - CRUDE	77.7	43.5	30.9	36.5	65.7	54.4	11200.	0.324	
INDUSTRIAL SURFACE COATING	4937.	1899.	1101.	1351.	4025.	1460.	2560000.	0.877	
PETR. - TANKS - D9 - BREATH	261.	139.	95.6	132.	190.	158.	31700.	0.336	
PETRLM STRG CRD OIL BRTHG	1280.	674.	465.	585.	842.	842.	0.0	-0.000	
PETRLM STRG GASOLINE BRTHG	959.	355.	245.	469.	295.	295.	0.0	0.000	
PETRLM STRG JET FUEL WKG	33.4	10.6	7.3	9.4	18.5	18.5	0.0	0.000	

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985			
PETR. - TRANSFER - JETFUEL		5.6	3.3	4.2	13.7	9.5	4100.	0.400
PETRLM STRG JET FUEL BRTHNG	17.7							
213.	62.0		42.8	59.9	114.	114.	0.0	0.000
LEAD ACID BATTERY PLANTS								
0.45	0.21		0.12	0.16	0.34	0.13	200.	0.985
PETR. - TANKS - KER - BREATH								
22.5	16.5		11.4	15.5	16.5	14.8	1600.	0.322
COKE OVENS - BY PRODUCT	228.	207.	149.	149.	228.	150.	77900.	0.990
PETRLM STRG AV GS WRKNG	8.1	2.6	1.8	2.3	4.5	4.5	0.0	0.000
* ORCHARD HEATERS								
353.	276.		185.	185.	353.	185.	168000.	1.000
PETRLM STRG AV GS BRTHNG	129.	38.1	26.3	36.4	70.4	70.4	0.0	-0.000
* BRICK & RELATED CLAY PRODUCTS								
1.3	1.0		0.69	0.69	1.3	0.69	620.	1.000
PETR. - TRANSFER - AVGAS	4.5	1.4	0.79	1.0	3.3	2.4	990.	0.389
WOOD PULPING KRAFT PROCESS	84.0	78.1	53.9	53.9	88.0	84.8	3200.	0.096
PETRLM STRG SPC NAP WRKNG	1.7	1.3	0.87	1.1	1.2	1.2	0.0	0.000
* INDUSTRIAL COMMERCIAL INCINERATORS								
50.7	17.8		10.9	10.9	50.7	10.9	39700.	1.000
* MUNICIPAL INCINERATOR								
35.9	24.6		15.0	15.0	35.9	15.0	20800.	1.000
* INTERNAL COMBUSTION ENGS SPKIGN								
873.	467.		373.	373.	873.	373.	499000.	1.000
CORE OVENS								
152.	112.		80.9	60.9	152.	87.9	63600.	0.900
PETRLM STRG SPC NAP BRTHNG	27.8	12.2	8.4	17.9	12.9	12.9	0.0	-0.000
INTERNAL COMB ENGS DIESEL DUALFUEL	209.	163.	130.	130.	209.	206.	2500.	0.032
PETR. - TRANSFER - SP. NAP.	0.94	0.68	0.39	0.51	0.73	0.60	120.	0.378
AMMONIA - METHANATOR PLANT	981.	415.	228.	228.	981.	232.	749000.	0.995

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE		EMISSIONS						TONS/YEAR T-T S N 1985	I - E / E N S
T U 1985	T A 1975	T E 1985	1000 TONS/YEAR		T UE 1985	T S 1985	T N 1985		
AMMONIA - REGENERATOR & CO ABSORBER									
981.	415.	228.	228.	981.	232.	749000.	0.995		
AUTOMOBILE ASSEMBLY									
135.	60.8	36.5	60.8	80.9	37.9	42900.	0.967		
MINERAL WOOL									
8.4	7.0	4.9	4.9	8.4	6.4	1900.	0.569		
BEER									
62.5	31.8	19.1	19.1	62.5	19.5	43000.	0.990		
VEGETABLE OIL PRODUCTION									
145.	114.	81.8	82.1	144.	107.	37400.	0.599		
PAINT									
81.5	62.9	20.9	20.9	81.5	21.5	59900.	0.990		
POLYETHYLENE - LOW DENSITY									
246.	9.0	8.4	50.1	41.3	10.4	30800.	0.940		
FORMALDEHYDE									
102.	33.6	18.5	22.9	82.6	19.3	63300.	0.987		
SMOKED MEAT									
0.60	0.51	0.31	0.31	0.60	0.43	170.	0.571		
ETHYLENE DICHLORIDE									
339.	20.1	11.0	78.8	47.5	11.3	36100.	0.993		
ASPHALT BLOWING									
4.4	3.5	2.1	2.1	4.4	2.1	2300.	0.990		
POLYVINYL CHLORIDE									
40.5	10.8	10.8	19.1	22.9	10.9	11900.	0.991		
DEEP FAT FRYING									
12.6	6.7	4.8	6.0	10.2	4.9	5200.	0.988		
DRY CLEANING									
364.	304.	152.	152.	364.	160.	204000.	0.965		
POLYSTYRENE									
24.9	4.3	4.1	11.5	9.0	4.3	4600.	0.971		
STYRENE - BUTADIENE RUBBER									
4.5	3.7	3.6	3.6	4.5	4.3	240.	0.262		
CARBON BLACK - FURNACE PROCESS									
558.	436.	240.	240.	558.	240.	318000.	0.999		
POLYETHYLENE - HIGH DENSITY									
238.	7.0	7.0	47.0	35.2	8.9	26300.	0.932		
TEXTILE - CARPET MFG									
1.1	0.57	0.33	0.37	0.95	0.37	590.	0.944		
SYNTHETIC FIBERS NYLON									
14.2	4.3	2.4	2.4	14.2	2.9	11200.	0.950		

HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				T N 1985	T - T S N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985				
ETHYLENE OXIDE - AIR OXIDATION	597.	290.	159.	159.	597.	164.	433000.	0.990	
POLYPROPYLENE	1.8	0.37	0.36	0.42	1.5	0.36	1100.	0.994	
COFFEE ROASTING	0.72	0.72	0.43	0.43	0.72	0.44	280.	0.995	
WHISKEY	2.7	1.7	1.2	1.2	2.7	1.2	1500.	0.980	
VARNISH	48.4	19.2	6.4	12.4	24.9	6.7	18100.	0.981	
SYNTHETIC RESINS PHENOLIC	6.5	2.5	2.4	3.1	5.0	2.4	2500.	0.987	
FIBERGLASS MANUF - W80L	1.9	1.3	0.48	0.48	1.9	0.53	1400.	0.970	
TEXTILE - TEXTURIZING	2.2	0.34	0.20	1.00	0.43	0.26	170.	0.750	
ACRYLONITRILE	305.	34.0	18.7	67.8	84.2	18.8	65400.	0.998	
CHARCOAL	225.	148.	81.4	81.4	225.	82.8	142000.	0.990	
TEXTILE - HEAT SETTING	7.6	1.0	0.61	2.0	2.3	1.4	850.	0.513	
SYNTHETIC RESINS UREA-MELANINE	4.5	1.7	1.6	2.1	3.4	1.6	1800.	0.987	
SYNTHETIC RESINS ACRYLIC	255.	9.1	5.0	33.5	38.2	7.2	31000.	0.933	
SYNTHETIC RESINS ALKYD	0.36	0.31	0.17	0.17	0.36	0.17	180.	0.990	
SYNTHETIC RESINS ABS-SAN	2.8	1.1	1.0	1.3	2.2	1.0	1100.	0.987	
SYNTHETIC FIBERS ACETATE	1.8	1.4	0.77	0.77	1.8	0.92	1000.	0.950	
PRINTING INK	34.6	8.5	4.7	11.7	13.9	7.0	6800.	0.750	
PHTHALIC ANHYDRIDE - 8-XYLENE	45.4	14.2	11.3	17.0	30.3	12.4	17800.	0.942	
AUTOBODY INCINERATORS	0.50	0.13	0.080	0.080	0.50	0.27	220.	0.540	
MALEIC ANHYDRIDE BENZENE OXID.	46.8	16.9	9.3	10.9	40.0	9.3	30600.	0.999	

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T-S-N 1985	I-E/ N-S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985		
PETROLEUM REFINERY PRS GAS CO	4.8	3.2	2.2	2.2	4.8	2600.	1.000
SEC ZINC SWEAT	0.33	0.23	0.15	0.15	0.33	180.	0.999
PATHOLOGICAL INCINERATOR	0.11	0.084	0.051	0.051	0.11	50.0	0.989
GRAPHIC ARTS-GRAVURE	175.	108.	59.2	59.2	175.	116000.	0.999
GRAPHIC ARTS - LETTERPRESS	108.	66.0	36.3	36.3	108.	70400.	0.990
GRAPHIC ARTS - LITHOGRAPHY	115.	63.0	34.6	38.8	103.	67200.	0.989
GRAPHIC ARTS FLEXOGRAPHY	159.	97.9	53.9	53.9	159.	104000.	0.990
GRAPHIC ARTS - METAL DECORATING	111.	58.9	32.4	37.4	95.9	62700.	0.988
DIRECT FIRING OF HEAT	85.3	64.1	32.1	32.1	85.3	30300.	0.570
SEC MAGNESIUM	0.029	0.024	0.016	0.016	0.029	10.0	0.999

B

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE		UNCONT		GROWTH RATES DECIMAL/YR		CAPACITY/PRODUCTION		C 1985
			E S	N	E U	P B	P C	UNITS/YR	A 1975	B 1985	
BOILERS >250 MM BTU/HR	0.58	LB/E6 BTU	0.019	0.000	0.019	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
PLYWOOD-VENEER	0.95	LB/TON	0.001	0.000	0.001	0.050S	0.025C	E6 TONS	22600.	11300.	6330.
BOILERS 3-10 MM BTU/HR	0.25	LB/E6 BTU	0.042	0.000	0.042	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
BOILERS 10-250 MM BTU/HR	0.32	LB/E6 BTU	0.045	0.000	0.045	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
BOILERS <3 MM BTU/HR	0.30	LB/E6 BTU	0.019	0.000	0.019	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
PETRLM STRG CRD OIL WRKNG	0.85	LB/BARREL	0.071	0.048	0.084	0.031S	0.042C	E6 BBL	6000.	1860.	3054.
EXIST. NEW	0.85		0.048								
FET REF - MISC PT SOURCE	0.85	LB/TON	0.586	0.293	0.586	0.031S	0.042C	E6 TONS	4937.	1530.	2527.
PETR - SERVICE STATIONS	0.85	LB/BARREL	0.229	0.034	0.378	0.031S	0.035C	E6 BBL	2950.	915.	1195.
PETRLM STRG GASOLINE WRKNG	0.85	LB/BARREL	0.071	0.012	0.116	0.031S	0.035C	E6 BBL	2950.	915.	1211.
EXIST. NEW	0.85		0.012								
FETR. - REFUELING	0.85	LB/BARREL	0.504	0.076	0.504	0.031S	0.035C	E6 BBL	2950.	915.	1195.
DEGREASING	0.82	LB/TON	1.150	0.150	1.500	0.042S	0.032C	E6 TONS	1626.	683.	602.
PETR. - TRANSFER - GAS	0.85	LB/BARREL	0.071	0.012	0.116	0.042S	0.035C	E6 BBL	1560.	651.	632.
PET REF - VACUUM DIST.	0.85	LB/TON	0.130	0.000	0.130	0.031S	0.042C	E6 TONS	1846.	572.	945.
PETR. - TRANSFER - CRUDE	0.85	LB/BARREL	0.071	0.048	0.084	0.029S	0.042C	E6 BBL	1440.	418.	737.
INDUSTRIAL SURFACE COATING	0.82	LB/TON	5.340	0.655	6.550	0.042S	0.078C	E6 TONS	867.	364.	971.
PETR. - TANKS - D8 - BREATH	1.00	LB/BARREL	0.431	0.286	0.593	0.031S	0.032C	E6 BBL	643.	199.	238.
PETRLM STRG CRD OIL BRTHNG	1.00	LB/BARREL	2.290	1.560	2.880	0.031S	0.042C	E6 BBL	589.	183.	300.
EXIST. NEW	1.00		1.560								
PETRLM STRG GASOLINE BRTHNG	1.00	LB/BARREL	1.490	0.290	2.850	0.031S	0.035C	E6 BBL	477.	148.	196.
EXIST. NEW	1.00		0.290								
ASPHALT BATCHING	0.47	LB/TON	0.167	0.000	0.167	0.008S	0.050S	E6 TONS	1480.	118.	740.

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E S	UNCOUNT E U	P	B	C	A 1975	B 1985	C 1985
PETRLM STRG JET FUEL WRKNG EXIST. NEW.	0.85 0.85	LB/BARREL	0.090 0.054	0.116	0.031S	0.094C	0.094C	276.	85.6	402.
PETR. - TRANSFER - JETFUEL										
PETRLM STRG JET FUEL BRTHNG EXIST. NEW.	0.85 1.00 1.00	LB/BARREL LB/BARREL LB/BARREL	0.090 1.000 0.650	0.116 1.400	0.042S 0.031S	0.094C	0.094C	146. 124.	60.9 38.4	213. 181.
LEAD ACID BATTERY PLANTS										
PETR. - TANKS - KER - BREATH	0.76	LB/PRD UNT	0.007	0.009	0.040S	0.050C	0.050C	80.0	32.0	50.3
COKE OVENS - BY PRODUCT	1.00	LB/BARREL	0.435	0.593	0.031S	0.000S	0.000S	75.8	23.5	0.0
PETRLM STRG AV GS WRKNG EXIST. NEW.	0.93 0.85 0.85	LB/TON LB/BARREL LB/BARREL	5.900 0.090 0.055	5.900 0.116	0.028S 0.031S	0.010S	0.094C	75.5 67.0	21.1 20.8	7.5 97.5
ORCHARD HEATERS										
PETR. - TRANSFER - AVGAS	1.00	LB/TON	9.200	9.200	0.033S	0.028S	0.028S	60.0	19.8	16.8
INDUSTRIAL COMMERCIAL INCINERATORS	0.85	LB/BARREL	0.090	0.116	0.042S	0.094C	0.094C	35.6	14.8	51.8
MUNICIPAL INCINERATOR	0.38	LB/TON	2.890	2.880	0.039S	0.110C	0.110C	32.6	12.7	60.0
BRICK & RELATED CLAY PRODUCTS	0.56	LB/TON	2.700	2.700	0.039S	0.046S	0.046S	32.5	12.7	14.9
PETRLM STRG AV GS BRTHNG EXIST. NEW.	0.80 1.00 1.00	LB/TON LB/BARREL LB/BARREL	0.073 2.060 1.350	0.073 2.850	0.033S 0.031S	0.027S	0.094C	35.7 37.0	11.8 11.5	9.6 53.9
WOOD PULPING KRAFT PROCESS										
PETRLM STRG SPC NAP WRKNG EXIST. NEW.	0.98 0.85 0.85	LB/TON LB/BARREL LB/BARREL	4.690 0.090 0.056	4.690 0.116	0.031S 0.031S	0.012C	0.094C	34.0 33.0	10.5 10.2	4.3 2.4
PETR. - TRANSFER - SP. NAP.										
CORE OVENS	0.85	LB/BARREL	0.090	0.116	0.042S	0.007C	0.007C	17.7	7.4	1.3
INTERNAL COMBUSTION ENGS SPKIGN	0.93	LB/TON	10.500	10.500	0.028S	0.035S	0.035S	23.0	6.4	8.0
PETRLM STRG SPC NAP BRTHNG EXIST. NEW.	0.58 1.00 1.00	LB/TON LB/BARREL LB/BARREL	56.000 1.340 1.300	56.000 2.850	0.020S 0.031S	0.087S	0.007C	28.7 18.2	5.7 5.6	25.0 1.3

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	EMISSION N	UNCERT F U	P	B	A 1975	B 1985	
AMMONIA - REGENERATOR & CO. ALCOHOL										
0.83		LB/TON	90.000	0.450	90.000	0.045S	0.090C	11.1	5.0	15.2
AMMONIA - METHANATOR PLANT										
0.83		LB/TON	90.000	0.450	90.000	0.045S	0.090C	11.1	5.0	15.2
AUTOMOBILE ASSEMBLY										
0.91		LB/PRD UNIT	12.600	0.420	21.000	0.040S	0.029C	10.6	4.2	3.5
INTERNAL COMB ENGS DIESEL DUALFUEL										
0.58		LB/TON	31.300	30.300	31.300	0.020S	0.028S	18.0	3.6	5.0
PAINT										
0.85		LB/TON	30.000	0.300	30.000	0.067S	0.026C	4.9	3.3	1.5
BEER										
0.81		LB/TON	10.900	0.109	10.900	0.040S	0.070C	7.2	2.9	7.0
MINERAL WOOD										
0.82		LB/TON	2.020	0.870	2.020	0.029S	0.020S	8.4	2.5	1.7
FORMALDEHYDE										
0.72		LB/TON	22.200	0.280	27.500	0.045S	0.094C	4.2	1.9	6.1
VEGETABLE OIL PRODUCTION										
0.92		LB/TON	37.900	15.200	38.000	0.028S	0.027S	6.5	1.8	1.8
ETHYLENE DICHLORIDE										
0.62		LB/TON	19.600	0.140	140.000	0.045S	0.090C	3.3	1.5	4.5
SMOKED MEAT										
0.91		LB/TON	0.350	0.150	0.350	0.040S	0.017C	3.6	1.4	0.66
ASPHALT BLOWING										
0.90		LB/TON	2.500	0.025	2.500	0.042S	0.025S	3.1	1.3	0.79
DRY CLEANING										
1.00		LB/TON	253.000	9.000	258.000	0.050S	0.018C	2.4	1.2	0.46
CARBON BLACK - FURNACE PROCESS										
0.77		LB/TON	570.000	0.570	570.000	0.045S	0.025C	2.0	0.89	0.56
VARNISH										
0.85		LB/TON	34.900	0.679	67.900	0.067S	0.026C	1.3	0.86	0.38
SYNTHETIC FIBERS NYLON										
0.72		LB/TON	7.000	0.350	7.000	0.045S	0.127C	1.7	0.76	3.9
ETHYLENE OXIDE - AIR OXIDATION										
0.87		LB/TON	392.000	3.920	392.000	0.045S	0.075C	1.7	0.76	1.8
TEXTILE - CARPET MFG										
0.86		LB/TON	0.720	0.040	0.800	0.042S	0.053C	1.8	0.76	1.2
DEEP FAT FRYING										
0.81		LB/TON	6.240	0.078	7.750	0.028S	0.043C	2.6	0.74	1.4
FIBERGLASS MANUF - WOOD										
0.70		LB/TON	3.390	0.102	3.390	0.063S	0.042C	1.1	0.68	0.55
COFFEE ROASTING										
0.85		LB/TON	1.100	0.005	1.100	0.040S	0.000S	1.5	0.62	0.0

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION			INDUSTRY B
			ALLOWABLE E S	E N		P B	C	UNITS/YR	A 1975	B 1985	C 1985	
WHISKEY	0.95	LB/PRD UNIT	2.760	0.055	2.760	0.032S	0.060S	E6 PU	1.3	0.42	0.78	
ACRYLONITRILE	0.90	LB/TON	91.000	0.165	330.000	0.045S	0.095C	E6 TONS	0.83	0.37	1.2	
TEXTILE - TEXTURIZING	0.86	LB/TON	0.920	0.230	4.600	0.042S	0.023C	E6 TONS	0.87	0.36	0.22	
CHARCOAL	0.85	LB/TON	438.000	4.400	438.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42	
TEXTILE - HEAT SETTING	0.86	LB/TON	3.054	1.486	10.180	0.042S	0.081C	E6 TONS	0.79	0.33	0.93	
POLYETHYLENE - LOW DENSITY	0.88	LB/TON	4.200	0.250	25.000	0.006S	0.165C	E6 TONS	4.8	0.29	17.5	
SYNTHETIC RESINS ACRYLIC	0.87	LB/TON	36.000	2.400	240.000	0.045S	0.154C	E6 TONS	0.58	0.26	1.9	
SYNTHETIC RESINS ALKYL	0.68	LB/TON	1.710	0.017	1.710	0.045S	0.015C	E5 TONS	0.53	0.24	0.085	
SYNTHETIC FIBERS ACETATE	0.93	LB/TON	7.000	0.350	7.000	0.045S	0.028C	E6 TONS	0.43	0.19	0.14	
PRINTING INK	0.83	LB/TON	48.000	12.000	120.000	0.045S	0.050C	E6 TONS	0.43	0.19	0.27	
POLYSTYRENE	0.88	LB/TON	4.200	0.120	11.700	0.005S	0.075C	E6 TONS	2.3	0.12	2.5	
AUTOBODY INCINERATORS	0.90	LB/PRD UNIT	1.000	0.460	1.000	0.039S	0.280S	E6 PU	0.29	0.11	0.82	
MALEIC ANHYDRIDE BENZENE OXID.	1.00	LB/TON	147.000	0.172	172.000	0.045S	0.090C	E6 TONS	0.23	0.10	0.31	
PTHALIC ANHYDRIDE - O-XYLENE	0.78	LB/TON	86.400	5.700	130.000	0.020S	0.079C	E6 TONS	0.42	0.084	0.48	
STYRENE - BUTADIENE RUBBER	0.75	LB/TON	4.200	3.100	4.200	0.003S	0.020C	E6 TONS	2.3	0.070	0.51	
PETRLM REFNRY PRS GAS C8	0.85	LB/E6 BTU	33.000	0.000	33.000	0.031S	0.042C	E12 BTU	0.23	0.070	0.12	
SEC ZINC SWEAT	0.82	LB/TON	2.810	0.003	2.810	0.035S	0.039C	E6 TONS	0.20	0.069	0.091	
SYNTHETIC RESINS PHENOLIC	0.80	LB/TON	5.760	0.075	7.500	0.005S	0.070C	E6 TONS	1.1	0.055	1.1	
GRAPHIC ARTS-GRAYURE	0.80	LB/TON	2300.000	2.300	2300.000	0.045S	0.050C	E6 TONS	0.12	0.053	0.074	
PATHOLOGICAL INCINERATOR	0.34	LB/TON	3.800	0.040	3.800	0.039S	0.026C	E6 TONS	0.13	0.051	0.038	
GRAPHIC ARTS - LETTERPRESS	0.80	L3/TON	1500.000	15.000	1500.000	0.045S	0.050C	E6 TONS	0.11	0.049	0.069	

HYDROCARBONS
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E U	GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E S	E N		P H	P C	UNITS/YR	A 1975	B 1985	C 1985
POLYPROPYLENE	0.78	LB/TON	0.590	0.003	0.700	0.003S	0.003S	0.150C	1.6	0.048	4.9
SYNTHETIC RESINS	0.80	UREA-MELANINE LB/TON	5.760	0.075	7.500	0.005S	0.005S	0.073C	0.74	0.037	0.76
GRAPHIC ARTS - LITHOGRAPHY	0.80	LB/TON	2500.000	28.000	2800.000	0.045S	0.045S	0.050C	0.063	0.028	0.040
SYNTHETIC RESINS ABS-SAN	0.80	LB/TON	5.760	0.075	7.500	0.005S	0.005S	0.072C	0.47	0.023	0.47
GRAPHIC ARTS FLEXOGRAPHY	0.80	LB/TON	4800.000	48.000	4800.000	0.045S	0.045S	0.050C	0.051	0.023	0.032
GRAPHIC ARTS - METAL DECORATING	0.80	LB/TON	3200.000	37.000	3700.000	0.045S	0.045S	0.050C	0.046	0.021	0.029
DIRECT FIRING OF MEAT	0.62	LB/TON	6136.000	2636.000	6136.000	0.050S	0.050S	0.033S	0.034	0.017	0.011
SEC MAGNESIUM	0.82	LB/TON	3.390	0.003	3.390	0.035S	0.035S	0.016C	0.017	0.0061	0.0030
POLYVINYL CHLORIDE	0.82	LB/TON	9.600	0.085	17.000	0.000S	0.000S	0.078C	2.7	0.0055	3.1
POLYETHYLENE - HIGH DENSITY	1.00	LB/TON	7.400	0.500	50.000	0.000S	0.000S	0.176C	1.9	0.0	7.6

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	EMISSIONS					T N 1985	T S N 1985	1 - E / E N S
		T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985			
* BOILERS >250 MM BTU/HR PLYWOOD-VEENER	264. 10.3	154. 8.1	77.2 4.0	77.2 4.0	264. 10.3	77.2 4.1	186000. 6200.	1.000 0.990	
* BOILERS .3-10 MM BTU/HR	212.	139.	87.6	87.6	212.	87.6	124000.	1.000	
* BOILERS 10-250 MM BTU/HR	162.	141.	70.3	70.3	162.	70.3	91200.	1.000	
* BOILERS <.3 MM BTU/HR	93.2	70.0	56.0	56.0	93.2	56.0	37100.	1.000	
PETRLM STRG CRD OIL WRKNG	323.	181.	125.	148.	225.	225.	0.0	0.000	
PET REF - MISC PT SOURCE	1859.	1230.	848.	848.	1859.	1354.	505000.	0.500	
PETR - SERVICE STATIONS	666.	287.	198.	327.	403.	229.	174000.	0.852	
PETRLM STRG GASOLINE WRKNG	205.	89.0	61.4	100.	72.3	72.3	0.0	0.000	
PETR. - REFUELING	888.	632.	436.	436.	888.	504.	383000.	0.849	
DEGREASING	1370.	767.	445.	580.	1051.	524.	526000.	0.870	
PETR. - TRANSFER - GAS	108.	47.1	27.4	44.8	66.1	33.8	32300.	0.837	
PET REF - VACUUM DIST.	154.	102.	70.4	70.4	154.	70.4	83700.	0.999	
PETR. - TRANSFER - CRUDE	77.7	43.5	30.9	36.5	65.7	54.4	11200.	0.324	
INDUSTRIAL SURFACE COATING	4937.	1899.	1101.	1351.	4025.	1460.	2560000.	0.877	
PETR8. - TANKS - D8 - BREATH	261.	139.	95.6	132.	190.	158.	31700.	0.336	
PETRLM STRG CRD OIL BRTHNG	1280.	674.	465.	585.	842.	842.	0.0	-0.000	
PETRLM STRG GASOLINE BRTHNG	959.	355.	245.	469.	295.	295.	0.0	0.000	
* ASPHALT BATCHING	87.1	58.1	53.4	53.4	87.1	53.4	33600.	1.000	
PETRLM STRG JET FUEL WRKNG	33.4	10.6	7.3	9.4	18.5	18.5	0.0	0.000	

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS				T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985			
PETR. - TRANSFER - JETFUEL 17.7	5.6	3.3	4.2	13.7	9.5	4100.	0.400
PETRLM STRG JET FUEL BRTHNG 213.	62.0	42.8	59.9	114.	114.	0.0	0.000
LEAD ACID BATTERY PLANTS 0.45	0.21	0.12	0.16	0.34	0.13	200.	0.985
PETR. - TANKS - KER - BREATH 22.5	16.5	11.4	15.5	16.5	14.8	1600.	0.322
COKE OVENS - BY PRODUCT 228.	207.	149.	149.	228.	150.	77900.	0.990
PETRLM STRG AV GS WRKNG 8.1	2.6	1.8	2.3	4.5	4.5	0.0	0.000
• ORCHARD HEATERS 353.	276.	185.	185.	353.	185.	168000.	1.000
PETR. - TRANSFER - AVGAS 4.3	1.4	0.79	1.0	3.3	2.4	990.	0.389
• INDUSTRIAL COMMERCIAL INCINERATORS 50.7	17.8	10.9	10.9	50.7	10.9	39700.	1.000
• MUNICIPAL INCINERATOR 35.9	24.6	15.0	15.0	35.9	15.0	20800.	1.000
• BRICK & RELATED CLAY PRODUCTS 1.3	1.0	0.69	0.69	1.3	0.69	420.	1.000
PETRLM STRG AV GS BRTHNG 129.	38.1	26.3	36.4	70.4	70.4	0.0	-0.000
WOOD PULPING KRAFT PROCESS 88.0	78.1	53.9	53.9	88.0	84.8	3200.	0.096
PETRLM STRG SPC NAP WRKNG 1.7	1.3	0.87	1.1	1.2	1.2	0.0	0.000
PETR. - TRANSFER - SP. NAP. 0.94	0.68	0.39	0.51	0.73	0.60	120.	0.378
CORE OVENS 152.	112.	80.9	80.9	152.	87.9	63600.	0.900
• INTERNAL COMBUSTION ENGS SPKIGN 873.	467.	373.	373.	873.	373.	499000.	1.000
PETRLM STRG SPC NAP BRTHNG 27.8	12.2	8.4	17.9	12.9	12.9	0.0	-0.000
AMMONIA - REGENERATOR & CO ABSORBER 981.	415.	228.	228.	981.	232.	749000.	0.995
AMMONIA - METHANATOR PLANT 981.	415.	228.	228.	981.	232.	749000.	0.995

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T S N 1985	I - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985		
AUTOMOBILE ASSEMBLY	135.	60.8	36.5	60.8	80.9	42900.	0.967
INTERNAL COMB ENGS DIESEL DUALFUEL	209.	163.	130.	130.	209.	2500.	0.032
PAINT	81.5	62.9	20.9	20.9	81.5	59900.	0.390
BEER	62.5	31.8	19.1	19.1	62.5	43000.	0.990
MINERAL WOOL	8.4	7.0	4.9	4.9	8.4	1900.	0.569
FORMALDEHYDE	102.	33.6	18.5	22.9	82.6	63300.	0.987
VEGETABLE OIL PRODUCTION	145.	114.	81.8	82.1	144.	37400.	0.599
ETHYLENE DICHLORIDE	339.	20.1	11.0	78.8	47.5	36100.	0.993
SMOKED MEAT	0.60	0.51	0.31	0.31	0.60	170.	0.571
ASPHALT BLOWING	4.4	3.5	2.1	2.1	4.4	2300.	0.990
DRY CLEANING	364.	304.	152.	152.	364.	204000.	0.985
CARBON BLACK - FURNACE PROCESS	558.	436.	240.	240.	558.	318000.	0.999
VARNISH	49.4	19.2	6.4	12.4	24.9	18100.	0.981
SYNTHETIC FIBERS NYLON	14.2	4.3	2.4	2.4	14.2	11200.	0.950
ETHYLENE OXIDE - AIR OXIDATION	597.	290.	159.	159.	597.	433000.	0.990
TEXTILE - CARPET MFG	1.1	0.57	0.33	0.37	0.95	580.	0.944
DEEP FAT FRYING	12.6	6.7	4.8	6.0	10.2	5200.	0.988
FIBERGLASS MANUF - WOOL	1.9	1.3	0.48	0.48	1.9	1400.	0.970
COFFEE ROASTING	0.72	0.72	0.43	0.43	0.72	240.	0.995
WHISKEY	2.7	1.7	1.2	1.2	2.7	1500.	0.980

HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985				
ACRYLONITRILE	305.	34.0	18.7	67.8	84.2	18.8	65400.	0.998	
TEXTILE - TEXTURIZING	2.2	0.34	0.20	1.00	0.43	0.26	170.	0.750	
CHARCOAL	225.	148.	81.4	81.4	225.	82.8	142000.	0.990	
TEXTILE - HEAT SETTING	7.6	1.0	0.61	2.0	2.3	1.4	850.	0.513	
POLYETHYLENE - LOW DENSITY	246.	9.0	8.4	50.1	41.3	10.4	30800.	0.940	
SYNTHETIC RESINS ACRYLIC	255.	9.1	5.0	33.5	38.2	7.2	31000.	0.933	
SYNTHETIC RESINS ALKYD	0.36	0.31	0.17	0.17	0.36	0.17	180.	0.990	
SYNTHETIC FIBERS ACETATE	1.8	1.4	0.77	0.77	1.8	0.82	1000.	0.950	
PRINTING INK	34.6	8.5	4.7	11.7	13.9	7.0	6800.	0.750	
POLYSTYRENE	24.9	4.3	4.1	11.5	9.0	4.3	4600.	0.971	
AUTOBODY INCINERATORS	0.50	0.13	0.080	0.080	0.50	0.27	220.	0.540	
MALEIC ANHYDRIDE BENZENE OXID.	46.8	16.9	9.3	10.9	40.0	9.3	30600.	0.999	
PHTHALIC ANHYDRIDE - 8-XYLENE	45.4	14.2	11.3	17.0	30.3	12.4	17800.	0.942	
STYRENE - BUTADIENE RUBBER	4.5	3.7	3.6	3.6	4.5	4.3	240.	0.262	
PETRLM REFINRY PRS GAS C0	4.8	3.2	2.2	2.2	4.8	2.2	2600.	1.000	
SEC ZINC SWEAT	0.33	0.23	0.15	0.15	0.33	0.15	180.	0.999	
SYNTHETIC RESINS PHENOLIC	6.5	2.5	2.4	3.1	5.0	2.4	2500.	0.987	
GRAPHIC ARTS-GRAVURE	175.	108.	59.2	59.2	175.	59.3	116000.	0.999	
PATHOLOGICAL INCINERATOR	0.11	0.084	0.051	0.051	0.11	0.052	50.0	0.989	
GRAPHIC ARTS - LETTERPRESS	108.	66.0	36.3	36.3	108.	37.0	70400.	0.990	

HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				TONS/YEAR T-T S N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
POLYPROPYLENE								
SYNTHETIC RESINS UREA-MELANINE	1.8	0.37	0.36	0.42	1.5	0.36	1100.	0.994
GRAPHIC ARTS - LITHOGRAPHY	4.5	1.7	1.6	2.1	3.4	1.6	1800.	0.987
SYNTHETIC RESINS ABS-SAN	115.	63.0	34.6	38.8	103.	35.4	67200.	0.989
GRAPHIC ARTS FLEXOGRAPHY	2.8	1.1	1.0	1.3	2.2	1.0	1100.	0.987
GRAPHIC ARTS - METAL DECORATING	159.	97.9	53.9	53.9	159.	54.9	104000.	0.990
DIRECT FIRING OF HEAT	111.	58.9	32.4	37.4	95.9	33.1	62700.	0.988
SEC MAGNESIUM	85.3	64.1	32.1	32.1	85.3	54.9	30300.	0.570
POLYVINYL CHLORIDE	0.029	0.024	0.016	0.016	0.029	0.016	10.0	0.999
POLYETHYLENE - HIGH DENSITY	40.5	10.8	10.8	19.1	22.9	10.9	11900.	0.991
	238.	7.0	7.0	47.0	35.2	8.9	26300.	0.932

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HYDROCARBONS
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCENT		GROWTH RATES DECIMAL/YR			UNITS/YR	CAPACITY/PRODUCTION		
			ALLOWABLE E	E	N	E	P	B	C		A	B	C
			S			U					1975	1985	1985
BOILERS >250 MM BTU/HR	0.58	LB/E6 BTU	0.019	0.000	0.000	0.019	0.050S	0.055C	0.055C	E12 BTU	28011.	14006.	19836.
BOILERS .3-10 MM BTU/HR	0.25	LB/E6 BTU	0.042	0.000	0.000	0.042	0.037S	0.043C	0.043C	E12 BTU	26471.	9794.	13857.
BOILERS <.3 MM BTU/HR	0.30	LB/E6 BTU	0.019	0.000	0.000	0.019	0.020S	0.029C	0.029C	E12 BTU	24572.	4914.	8131.
PLYWOOD-VENEER	0.95	LB/TON	0.001	0.000	0.000	0.001	0.050S	0.025C	0.025C	E6 TONS	22600.	11300.	6330.
PETRLM STRG CRD OIL WRKNG	0.85	LB/TON	0.071	0.000	0.000	0.071	0.031S	0.042C	0.042C	E6 BBL	6000.	1860.	3054.
EXIST. NEW.	0.85	LB/TON	0.048	0.000	0.000	0.048	0.031S	0.042C	0.042C	E6 BBL	6000.	1860.	3054.
BOILERS 10-250 MM BTU/HR	0.32	LB/E6 BTU	0.045	0.000	0.000	0.045	0.050S	0.014C	0.014C	E12 BTU	19534.	9767.	2914.
PET REF - MISC PT SOURCE	0.85	LB/TON	0.586	0.293	0.293	0.586	0.031S	0.042C	0.042C	E6 TONS	4937.	1530.	2527.
PETRLM STRG GASOLINE WRKNG	0.85	LB/TON	0.071	0.012	0.012	0.071	0.031S	0.035C	0.035C	E6 BBL	2950.	915.	1211.
EXIST. NEW.	0.85	LB/TON	0.012	0.012	0.012	0.012	0.031S	0.035C	0.035C	E6 BBL	2950.	915.	1211.
PETR - SERVICE STATIONS	0.85	LB/TON	0.229	0.034	0.034	0.229	0.031S	0.035C	0.035C	E6 BBL	2950.	915.	1195.
PETR. - REFUELING	0.85	LB/TON	0.504	0.076	0.076	0.504	0.031S	0.035C	0.035C	E6 BBL	2950.	915.	1195.
INDUSTRIAL SURFACE COATING	0.82	LB/TON	5.340	0.655	0.655	6.550	0.042S	0.078C	0.078C	E6 TONS	867.	364.	971.
PET REF - VACUUM DIST.	0.85	LB/TON	0.130	0.000	0.000	0.130	0.031S	0.042C	0.042C	E6 TONS	1846.	572.	945.
ASPHALT BATCHING	0.47	LB/TON	0.167	0.000	0.000	0.167	0.008S	0.050S	0.050S	E6 TONS	1480.	118.	740.
PETR. - TRANSFER - CRUDE	0.85	LB/TON	0.071	0.048	0.048	0.071	0.029S	0.042C	0.042C	E6 BBL	1440.	418.	737.
PETR. - TRANSFER - GAS	0.85	LB/TON	0.071	0.012	0.012	0.071	0.042S	0.035C	0.035C	E6 BBL	1560.	651.	632.
DEGREASING	0.82	LB/TON	1.150	0.150	0.150	1.500	0.042S	0.032C	0.032C	E6 TONS	1626.	683.	602.
PETRLM STRG JET FUEL WRKNG	0.85	LB/TON	0.090	0.054	0.054	0.090	0.031S	0.094C	0.094C	E6 BBL	276.	85.6	402.
EXIST. NEW.	0.85	LB/TON	0.054	0.054	0.054	0.054	0.031S	0.094C	0.094C	E6 BBL	276.	85.6	402.
PETRLM STRG CRD OIL BRTHNG	1.00	LB/TON	2.290	1.560	1.560	2.880	0.031S	0.042C	0.042C	E6 BBL	589.	183.	300.
EXIST. NEW.	1.00	LB/TON	1.560	1.560	1.560	2.880	0.031S	0.042C	0.042C	E6 BBL	589.	183.	300.
PETRO. - TANKS - D8 - BREATH	1.00	LB/TON	0.431	0.286	0.286	0.593	0.031S	0.032C	0.032C	E6 BBL	643.	199.	238.

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N	UNCONT E U	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
PETR. - TRANSFER - JETFUEL											
PETRLM STRG - GASOLINE BRTHNG	0.85	LB/BARREL	0.090	0.054	0.116	0.042S	0.094C	E6 BBL	146.	60.9	213.
EXIST.	1.00	LB/BARREL	1.490	0.290	2.850	0.031S	0.035C	E6 BBL	477.	148.	196.
NEW.	1.00		0.290								
PETRLM STRG - JET FUEL BRTHNG	1.00	LB/BARREL	1.000	0.650	1.400	0.031S	0.094C	E6 BBL	124.	38.4	181.
EXIST.	1.00		0.650								
NEW.	1.00										
PETRLM STRG AV GS WRKNG	0.85	LB/BARREL	0.090	0.055	0.116	0.031S	0.094C	E6 BBL	67.0	20.8	97.5
EXIST.	0.85		0.055								
NEW.	0.85										
INDUSTRIAL COMMERCIAL INCINERATORS											
PETRLM STRG AV GS BRTHNG	0.38	LB/TON	2.880	0.000	2.880	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
EXIST.	1.00	LB/BARREL	2.060	1.350	2.850	0.031S	0.094C	E6 BBL	37.0	11.5	53.9
NEW.	1.00		1.350								
PETR. - TRANSFER - AVGAS	0.85	LB/BARREL	0.090	0.055	0.116	0.042S	0.094C	E6 BBL	35.6	14.8	51.8
LEAD ACID BATTERY PLANTS	0.76	LB/PRD UNT	0.007	0.000	0.009	0.040S	0.050C	E6 PU	80.0	32.0	50.3
INTERNAL COMBUSTION ENGS SPVIGN	0.58	LB/TON	56.000	0.000	56.000	0.020S	0.087S	E6 TONS	28.7	5.7	25.0
POLYETHYLENE - LOW DENSITY	0.88	LB/TON	4.200	0.250	25.000	0.006S	0.165C	E6 TONS	4.8	0.29	17.5
ORCHARD HEATERS	1.00	LB/TON	9.200	0.000	9.200	0.033S	0.028S	E6 TONS	60.0	19.8	16.8
AMMONIA - REGENERATOR & CO ABSORBER	0.83	LB/TON	90.000	0.450	90.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
AMMONIA - METHANATOR PLANT	0.83	LB/TON	90.000	0.450	90.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
MUNICIPAL INCINERATOR	0.56	LB/TON	2.700	0.000	2.700	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.073	0.000	0.073	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
CORE OVENS	0.93	LB/TON	10.500	1.050	10.500	0.028S	0.035S	E6 TONS	23.0	6.4	8.0
POLYETHYLENE - HIGH DENSITY	1.00	LB/TON	7.400	0.500	50.000	0.000S	0.176C	E6 TONS	1.9	0.0	7.6
COKE OVENS - BY PRODUCT	0.93	LB/TON	5.900	0.060	5.900	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
BEER	0.81	LB/TON	10.900	0.109	10.900	0.040S	0.070C	E6 TONS	7.2	2.9	7.0

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	UNCONT E U	GROWTH RATES DECIMAL/YR P B	C	UNITS/YR	CAPACITY/PRODUCTION		
								A	B	C
								1975	1985	1985
FORMALDEHYDE										
INTERNAL COMB ENGS DIESEL DUALFUEL	0.72	LB/TON	22.200	0.280	27.500	0.045S	0.094C	4.2	1.9	6.1
POLYPROPYLENE	0.58	LB/TON	31.300	30.300	31.300	0.020S	0.028S	18.0	3.6	5.0
ETHYLENE DICHLORIDE	0.78	LB/TON	0.590	0.003	0.700	0.003S	0.150C	1.6	0.048	4.9
WOOD PULPING KRAFT PROCESS	0.62	LB/TON	19.600	0.140	140.000	0.045S	0.090C	3.3	1.5	4.5
SYNTHETIC FIBERS NYLON	0.98	LB/TON	4.690	4.240	4.690	0.031S	0.012C	34.0	10.5	4.3
AUTOMOBILE ASSEMBLY	0.72	LB/TON	7.000	0.350	7.000	0.045S	0.127C	1.7	0.76	3.9
POLYVINYL CHLORIDE	0.91	LB/PRD UNIT	12.600	0.420	21.000	0.040S	0.029C	10.6	4.2	3.5
POLYSTYRENE	0.82	LB/TON	9.600	0.085	17.000	0.000S	0.078C	2.7	0.0055	3.1
PETRLM STRG SPC NAP WRKNG	0.88	LB/TON	4.200	0.120	11.700	0.005S	0.075C	2.3	0.12	2.5
EXIST. NEW	0.85	LB/BARREL	0.090	0.056	0.116	0.031S	0.007C	33.0	10.2	2.4
SYNTHETIC RESINS ACRYLIC										
ETHYLENE OXIDE - AIR OXIDATION	0.87	LB/TON	36.000	2.400	240.000	0.045S	0.154C	0.58	0.26	1.9
VEGETABLE OIL PRODUCTION	0.87	LB/TON	392.000	3.920	392.000	0.045S	0.075C	1.7	0.76	1.8
PINERAL WOOL	0.92	LB/TON	37.900	15.200	38.000	0.028S	0.027S	6.5	1.8	1.8
PAINT	0.82	LB/TON	2.020	0.370	2.020	0.029S	0.020S	8.4	2.5	1.7
DEEP FAT FRYING	0.85	LB/TON	30.000	0.300	30.000	0.067S	0.026C	4.9	3.3	1.5
PETRLM STRG SPC NAP BRTHNG	0.81	LB/TON	6.240	0.078	7.750	0.028S	0.043C	2.6	0.74	1.4
EXIST. NEW	1.00	LB/BARREL	1.340	1.300	2.850	0.031S	0.007C	18.2	5.6	1.3
PETR. - TRANSFER - SP. NAP.	1.00									
TEXTILE - CARPET MFG	0.85	LB/BARREL	0.090	0.056	0.116	0.042S	0.007C	17.7	7.4	1.3
ACRYLONITRILE	0.86	LB/TON	0.720	0.040	0.800	0.042S	0.053C	1.8	0.76	1.2
	0.90	LB/TON	91.000	0.165	330.000	0.045S	0.095C	0.83	0.37	1.2

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C
			ALLOWABLE E S	EMISSION E N		P	B	P	A	B	
					U				1975	1985	1985
SYNTHETIC RESINS PHENOLIC											
0.80		LB/TON	5.760	0.075	7.500	0.0055	0.070C	E6 TONS	1.1	0.055	1.1
TEXTILE - HEAT SETTING		LB/TON	3.054	1.486	10.180	0.042S	0.081C	E6 TONS	0.79	0.33	0.93
AUTOBODY INCINERATORS		LB/PRD UNIT	1.000	0.460	1.000	0.039S	0.280S	E6 PU	0.29	0.11	0.82
ASPHALT BLOWING		LB/TON	2.500	0.025	2.500	0.042S	0.025S	E6 TONS	3.1	1.3	0.79
WHISKEY		LB/PRD UNIT	2.760	0.055	2.760	0.032S	0.060S	E6 PU	1.3	0.42	0.78
SYNTHETIC RESINS UREA-MELANINE		LB/TON	5.760	0.075	7.500	0.0055	0.073C	E6 TONS	0.74	0.037	0.76
SPOKED MEAT		LB/TON	0.350	0.150	0.350	0.040S	0.017C	E6 TONS	3.6	1.4	0.66
CARBON BLACK - FURNACE PROCESS		LB/TON	570.000	0.570	570.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56
FIBERGLASS MANUF - WOOL		LB/TON	3.390	0.102	3.390	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
STYRENE - BUTADIENE RUBBER		LB/TON	4.200	3.100	4.200	0.003S	0.020C	E6 TONS	2.3	0.070	0.51
0.75		LB/TON	86.600	5.000	130.000	0.70S	0.079C	E6 TONS	0.42	0.084	0.48
PHTHALIC ANHYDRIDE - 0-XYLENE		LB/TON	5.760	0.075	7.500	0.0055	0.072C	E6 TONS	0.47	0.023	0.47
SYNTHETIC RESINS ABS-SAN		LB/TON	258.000	9.000	258.000	0.050S	0.018C	E6 TONS	2.4	1.2	0.46
0.80		LB/TON	438.000	4.400	438.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42
DRY CLEANING		LB/TON	34.900	0.679	67.900	0.067S	0.026C	E6 TONS	1.3	0.86	0.38
CHARCOAL		LB/TON	147.000	0.172	172.000	0.045S	0.090C	E6 TONS	0.23	0.10	0.31
VARNISH		LB/TON	48.000	12.000	120.000	0.045S	0.050C	E6 TONS	0.43	0.19	0.27
0.85		LB/TON	0.920	0.230	4.600	0.042S	0.023C	E6 TONS	0.87	0.36	0.22
PALEIC ANHYDRIDE BENZENE 8X10		LB/TON	7.000	0.350	7.000	0.045S	0.028C	E6 TONS	0.43	0.19	0.14
1.00		LB/TON	33.000	0.000	33.000	0.031S	0.042C	E12 BTU	0.23	0.070	0.12
PRINTING INK		LB/TON	2.810	0.003	2.810	0.035S	0.039C	E6 TONS	0.20	0.069	0.091
0.83		LB/TON									
TEXTILE - TEXTURIZING		LB/TON									
0.86		LB/TON									
SYNTHETIC FIBERS ACETATE		LB/TON									
0.93		LB/TON									
PETRLM REFRNRY PRS GAS C6		LB/E6 BTU									
0.85		LB/TON									
SEC ZINC SWEAT		LB/TON									
0.82		LB/TON									

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION ALLOWABLE E S	EMISSION RATES		GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		C 1985
				E N	UNCNT E U	P B	P C	UNITS/YR	A 1975	B 1985	
SYNTHETIC RESINS ALKYL											
0.68		LB/TON	1.710	0.017	1.710	0.045S	0.015C	E6 TONS	0.53	0.24	0.085
GRAPHIC ARTS-GRAVURE											
0.80		LB/TON	2300.000	2.300	2300.000	0.045S	0.050C	E6 TONS	0.12	0.053	0.074
GRAPHIC ARTS - LETTERPRESS											
0.80		LB/TON	1500.000	15.000	1500.000	0.045S	0.050C	E6 TONS	0.11	0.049	0.069
GRAPHIC ARTS - LITHOGRAPHY											
0.80		LB/TON	2500.000	28.000	2800.000	0.045S	0.050C	E6 TONS	0.063	0.028	0.040
PATHOLOGICAL INCINERATOR											
0.34		LB/TON	3.800	0.040	3.800	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
GRAPHIC ARTS FLEXOGRAPHY											
0.80		LB/TON	4800.000	48.000	4800.000	0.045S	0.050C	E6 TONS	0.051	0.023	0.032
GRAPHIC ARTS - METAL DECORATING											
0.80		LB/TON	3200.000	37.000	3700.000	0.045S	0.050C	E6 TONS	0.046	0.021	0.029
DIRECT FIRING OF HEAT											
0.62		LB/TON	6136.000	2636.000	6136.000	0.050S	0.033S	E6 TONS	0.034	0.017	0.011
SEC MAGNESIUM											
0.82		LB/TON	3.390	0.003	3.390	0.035S	0.016C	E6 TONS	0.017	0.0061	0.0030
COFFEE ROASTING											
0.85		LB/TON	1.100	0.005	1.100	0.040S	0.000S	E6 TONS	1.5	0.62	0.0
PETR. - TANKS - KER - BREATH											
1.00		LB/BARREL	0.435	0.295	0.593	0.031S	0.000S	E6 BBL	75.8	23.5	0.0

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985	
• BOILERS >250 MM BTU/HR 264.		154.	77.2	77.2	264.	77.2	1.000
• BOILERS .3-10 MM BTU/HR 212.		139.	87.6	87.6	212.	87.6	1.000
• BOILERS <.3 MM BTU/HR 93.2		70.0	56.0	56.0	93.2	56.0	1.000
PLYWOOD-VENEER 10.3		8.1	4.0	4.0	10.3	4.1	0.990
PETRLM STRG CRD OIL WRKNG 323.		181.	125.	148.	225.	225.	0.000
• BOILERS 10-250 MM BTU/HR 162.		141.	70.3	70.3	162.	70.3	1.000
PET REF - MISC PT SOURCE 1859.		1230.	848.	848.	1859.	1354.	0.500
PETRLM STRG GASOLINE WRKNG 205.		89.0	61.4	100.	72.3	72.3	0.000
PETR - SERVICE STATIONS 666.		287.	198.	327.	403.	229.	0.852
PETR. - REFUELING 888.		632.	436.	436.	888.	504.	0.849
INDUSTRIAL SURFACE COATING 4937.		1899.	1101.	1351.	4025.	1460.	0.877
PET REF - VACUUM DIST. 154.		102.	70.4	70.4	154.	70.4	0.999
• ASPHALT BATCHING 87.1		58.1	53.4	53.4	87.1	53.4	1.000
PETR. - TRANSFER - CRUDE 77.7		43.5	30.9	36.5	65.7	54.4	0.324
PETR. - TRANSFER - GAS 108.		47.1	27.4	44.8	66.1	33.8	0.837
DEGREASING 1370.		767.	445.	580.	1051.	524.	0.870
PETRLM STRG JET FUEL WRKNG 33.4		10.6	7.3	9.4	18.5	18.5	0.000
PETRLM STRG CRD OIL BRKNG 1280.		674.	465.	565.	842.	842.	0.000
PETR. - TANKS - DS - BREATH 261.		139.	95.6	132.	150.	158.	0.336
PETR. - TRANSFER - JETFUEL 17.7		5.6	3.3	4.2	13.7	9.5	0.400

HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985		
PETRLM STRG GASOLINE BRTHNG							
PETRLM STRG JET FUEL BRTHNG	959.	355.	245.	469.	295.	0.0	0.000
PETRLM STRG AV GS WRKNG	213.	62.0	42.8	59.9	114.	0.0	0.000
• INDUSTRIAL COMMERCIAL INCINERATORS	8.1	2.6	1.8	2.3	4.5	0.0	0.000
PETRLM STRG AV GS BRTHNG	50.7	17.8	10.9	10.9	50.7	39700.	1.000
PETR. - TRANSFER - AVGAS	123.	38.1	26.3	36.4	70.4	0.0	-0.000
LEAD ACID BATTERY PLANTS	4.3	1.4	0.79	1.0	3.3	990.	0.389
• INTERNAL COMBUSTION ENGS SPKIGN	0.45	0.21	0.12	0.16	0.34	200.	0.985
POLYETHYLENE - LOW DENSITY	873.	467.	373.	373.	873.	499000.	1.000
• ORCHARD HEATERS	246.	9.0	8.4	50.1	41.3	30800.	0.940
AMMONIA - REGENERATOR & CO ABSORBER	353.	276.	185.	185.	353.	168000.	1.000
AMMONIA - METHANATOR PLANT	981.	415.	228.	228.	981.	749000.	0.995
• MUNICIPAL INCINERATOR	981.	415.	228.	228.	981.	749000.	0.995
• BRICK & RELATED CLAY PRODUCTS	35.9	24.6	15.0	15.0	35.9	20800.	1.000
CORE OVENS	1.3	1.0	0.69	0.69	1.3	620.	1.000
POLYETHYLENE - HIGH DENSITY	152.	112.	80.9	80.9	152.	63600.	0.900
COKE OVENS - BY PRODUCT	233.	7.0	7.0	47.0	35.2	26300.	0.932
BEER	228.	207.	149.	149.	228.	77900.	0.990
FORMALDEHYDE	62.5	31.8	19.1	19.1	62.5	43000.	0.990
INTERNAL COMB ENGS DIESEL DUALFUEL	102.	33.6	18.5	22.9	82.6	63300.	0.987
	209.	163.	130.	130.	209.	2500.	0.032

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS				T S 1985	T N 1985	TONS/YEAR T-S-N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985				
POLYPROPYLENE	1.8	0.37	0.36	0.42	1.5	0.36	1100.	0.994
ETHYLENE DICHLORIDE	339.	20.1	11.0	78.8	47.5	11.3	36100.	0.993
WOOD PULPING KRAFT PROCESS	88.0	78.1	53.9	53.9	88.0	84.8	3200.	0.096
SYNTHETIC FIBERS NYLON	14.2	4.3	2.4	2.4	14.2	2.9	11200.	0.950
AUTOMOBILE ASSEMBLY	135.	60.8	36.5	60.8	80.9	37.9	42900.	0.967
POLYVINYL CHLORIDE	40.5	10.8	10.8	19.1	22.9	10.9	11900.	0.991
POLYSTYRENE	24.9	4.3	4.1	11.5	9.0	4.3	4600.	0.971
PETRLM STRG SPC NAP WRKNG	1.7	1.3	0.87	1.1	1.2	1.2	0.0	0.000
SYNTHETIC RESINS ACRYLIC	255.	9.1	5.0	33.5	38.2	7.2	31000.	0.933
ETHYLENE OXIDE - AIR OXIDATION	597.	290.	159.	159.	597.	164.	433000.	0.990
VEGETABLE OIL PRODUCTION	145.	114.	81.8	82.1	144.	107.	37400.	0.599
MINERAL WOOL	8.4	7.0	4.9	4.9	8.4	6.4	1900.	0.569
PAINT	81.5	62.9	20.9	20.9	81.5	21.5	59900.	0.990
DEEP FAT FRYING	12.6	6.7	4.8	6.0	10.2	4.9	5200.	0.988
PETRLM STRG SPC NAP BRTHNG	27.8	12.2	8.4	17.9	12.9	12.9	0.0	-0.000
PETR. - TRANSFER - SP. NAP.	0.94	0.68	0.39	0.51	0.73	0.60	120.	0.378
TEXTILE - CARPET MFG	1.1	0.57	0.33	0.37	0.95	0.37	580.	0.944
ACRYLONITRILE	305.	34.0	18.7	67.8	84.2	18.8	65400.	0.998
SYNTHETIC RESINS PHENOLIC	6.5	2.5	2.4	3.1	5.0	2.4	2500.	0.987
TEXTILE - HEAT SETTING	7.6	1.0	0.61	2.0	2.3	1.4	850.	0.513

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS			TONS/YEAR T-S-N 1985	I - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985	
AUTOBODY INCINERATORS	0.50	0.13	0.080	0.080	0.50	0.27	0.540
ASPHALT BLOWING	4.4	3.5	2.1	2.1	4.4	2.1	0.990
WHISKEY	2.7	1.7	1.2	1.2	2.7	1.2	0.980
SYNTHETIC RESINS UREA-MELANINE	4.5	1.7	1.6	2.1	3.4	1.6	0.987
SMOKED MEAT	0.60	0.51	0.31	0.31	0.60	0.43	0.571
CARBON BLACK - FURNACE PROCESS	558.	436.	240.	240.	558.	240.	0.999
FIBERGLASS MANUF - W08L	1.9	1.3	0.48	0.48	1.9	0.53	0.970
STYRENE - BUTADIENE RUBBER	4.5	3.7	3.6	3.6	4.5	4.3	0.262
PHTHALIC ANHYDRIDE - O-XYLENE	45.4	14.2	11.3	17.0	30.3	12.4	0.942
SYNTHETIC RESINS ABS-SAN	2.8	1.1	1.0	1.3	2.2	1.0	0.987
DRY CLEANING	364.	304.	152.	152.	364.	160.	0.965
CHARCOAL	225.	148.	81.4	81.4	225.	82.8	0.990
VARNISH	48.4	19.2	6.4	12.4	24.9	6.7	0.981
MALEIC ANHYDRIDE BENZENE OXID.	46.8	16.9	9.3	10.9	40.0	9.3	0.999
PRINTING INK	34.2	8.5	4.7	11.7	13.9	7.0	0.750
TEXTILE - TEXTURIZING	2.2	0.34	0.20	1.00	0.43	0.26	0.750
SYNTHETIC FIBERS ACETATE	1.8	1.4	0.77	0.77	1.8	0.82	0.950
PETRLM REFRNRY PRS GAS C0	4.8	3.2	2.2	2.2	4.8	2.2	1.000
SEC ZINC SWEAT	0.33	0.23	0.15	0.15	0.33	0.15	0.999
SYNTHETIC RESINS ALKYD	0.36	0.31	0.17	0.17	0.36	0.17	0.990

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS							TONS/YEAR T-T S N 1985	1 - E/E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985			
GRAPHIC ARTS-GRAYURE									
GRAPHIC ARTS - LETTERPRESS	175.	108.	59.2	59.2	175.	59.3	116000.	0.999	
GRAPHIC ARTS - LITHOGRAPHY	103.	66.0	36.3	36.3	103.	37.0	70400.	0.990	
GRAPHIC ARTS - LITHOGRAPHY	115.	63.0	34.6	38.8	103.	35.4	67200.	0.989	
PATHOLOGICAL INCINERATOR	0.11	0.084	0.051	0.051	0.11	0.052	50.0	0.989	
GRAPHIC ARTS FLEXOGRAPHY	159.	97.9	53.9	53.9	159.	54.9	104000.	0.990	
GRAPHIC ARTS - METAL DECORATING									
DIRECT FIRING OF MEAT	111.	58.9	32.4	37.4	95.9	33.1	62700.	0.988	
SEC MAGNESIUM	85.3	64.1	32.1	32.1	85.3	54.9	30300.	0.570	
COFFEE ROASTING	0.029	0.024	0.016	0.016	0.029	0.016	10.0	0.999	
PETR. - TANKS - KER - BREATH	0.72	0.72	0.43	0.43	0.72	0.44	280.	0.995	
	22.5	16.5	11.4	15.5	16.5	14.8	1600.	0.322	

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N

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS				T S 1985	T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985				
GRAPHIC ARTS-GRAVURE								
GRAPHIC ARTS - LETTERPRESS	175.	108.	59.2	59.2	175.	59.3	116000.	0.999
GRAPHIC ARTS - LITHOGRAPHY	103.	66.0	36.3	36.3	108.	37.0	70400.	0.990
PATHOLOGICAL INCINERATOR	115.	63.0	34.6	38.8	103.	35.4	67200.	0.989
GRAPHIC ARTS FLEXOGRAPHY	0.11	0.084	0.051	0.051	0.11	0.052	50.0	0.989
GRAPHIC ARTS - METAL DECORATING	159.	97.9	53.9	53.9	159.	54.9	104000.	0.990
DIRECT FIRING OF HEAT	111.	58.9	32.4	37.4	95.9	33.1	62700.	0.988
SEC MAGNESIUM	85.3	64.1	32.1	32.1	85.3	54.9	30300.	0.570
COFFEE ROASTING	0.029	0.024	0.016	0.016	0.029	0.016	10.0	0.999
PETR. - TANKS - KER - BREATH	0.72	0.72	0.43	0.43	0.72	0.44	280.	0.995
	22.5	16.5	11.4	15.5	16.5	14.8	1600.	0.322

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION ALLOWABLE E S	EMISSION RATES			GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C 1985
				E	N	U	P	B	C	A 1975	B 1985	
DIRECT FIRING OF MEAT	0.62	LB/TON	6136.000	2636.000	6136.000	6136.000	0.050S	0.033S	0.017	0.034	0.011	0.011
GRAPHIC ARTS FLEXOGRAPHY	0.80	LB/TON	4800.000	48.000	4800.000	4800.000	0.045S	0.050C	0.023	0.051	0.032	0.032
GRAPHIC ARTS - METAL DECORATING	0.80	LB/TON	3200.000	37.000	3700.000	3700.000	0.045S	0.050C	0.021	0.046	0.029	0.029
INTERNAL COMB ENGS DIESEL DUALFUEL	0.58	LB/TON	31.300	30.300	31.300	31.300	0.020S	0.028S	3.6	18.0	5.0	5.0
GRAPHIC ARTS - LITHOGRAPHY	0.80	LB/TON	2500.000	28.000	2800.000	2800.000	0.045S	0.050C	0.028	0.063	0.040	0.040
VEGETABLE OIL PRODUCTION	0.92	LB/TON	37.900	15.200	38.000	38.000	0.028S	0.027S	1.8	6.5	1.8	1.8
GRAPHIC ARTS - LETTERPRESS	0.80	LB/TON	1500.000	15.000	1500.000	1500.000	0.045S	0.050C	0.049	0.11	0.069	0.069
PRINTING INK	0.83	LB/TON	48.000	12.000	120.000	120.000	0.045S	0.050C	0.19	0.43	0.27	0.27
DRY CLEANING	1.00	LB/TON	258.000	9.000	258.000	258.000	0.050S	0.018C	1.2	2.4	0.46	0.46
PHTHALIC ANHYDRIDE - 8-XYLENE	0.78	LB/TON	86.600	5.000	130.000	130.000	0.020S	0.079C	0.084	0.42	0.48	0.48
CHARCOAL	0.85	LB/TON	438.000	4.400	438.000	438.000	0.045S	0.043C	0.36	0.79	0.42	0.42
WOOD PULPING KRAFT PROCESS	0.98	LB/TON	4.690	4.240	4.690	4.690	0.031S	0.012C	10.5	34.0	4.3	4.3
ETHYLENE OXIDE - AIR OXIDATION	0.87	LB/TON	392.000	3.920	392.000	392.000	0.045S	0.075C	0.76	1.7	1.8	1.8
STYRENE - BUTADIENE RUBBER	0.75	LB/TON	4.200	3.100	4.200	4.200	0.003S	0.020C	0.070	2.3	0.51	0.51
SYNTHETIC RESINS ACRYLIC	0.87	LB/TON	36.000	2.400	240.000	240.000	0.045S	0.154C	0.26	0.58	1.9	1.9
GRAPHIC ARTS-GRAVURE	0.80	LB/TON	2300.000	2.300	2300.000	2300.000	0.045S	0.050C	0.053	0.12	0.074	0.074
PETRLM STRG CRD OIL BRTHNG	1.00	LB/BARREL	2.200	1.560	2.880	2.880	0.031S	0.042C	183.	589.	300.	300.
EXIST- NEW	1.00		1.560									
TEXTILE - MEAT SETTING	0.86	LB/TON	3.054	1.486	10.180	10.180	0.042S	0.081C	0.33	0.79	0.93	0.93
PETRLM STRG AV GS BRTHNG	1.00	LB/BARREL	2.060	1.350	2.850	2.850	0.031S	0.094C	11.5	37.0	53.9	53.9
EXIST- NEW	1.00		1.350									
PETRLM STRG SPC NAP BRTHNG	1.00	LB/BARREL	1.340	1.300	2.850	2.850	0.031S	0.007C	5.6	18.2	1.3	1.3
EXIST- NEW	1.00		1.300									

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR		UNITS/YR	INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION N		P B	P C		A 1975	B 1985	C 1985
CORE OVENS											
MINERAL WOOL	0.93	LB/TON	10.500	1.050	10.500	0.028S	0.035S	E6 TONS	23.0	6.4	8.0
VARNISH	0.82	LB/TON	2.020	0.870	2.020	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
INDUSTRIAL SURFACE COATING	0.85	LB/TON	34.900	0.679	67.900	0.067S	0.026C	E6 TONS	1.3	0.86	0.38
PETRLM STRG JET FUEL BRTHNG EXIST.	0.82	LB/TON	5.340	0.655	6.550	0.042S	0.078C	E6 TONS	867.	364.	971.
NEW.	1.00	LB/BARREL	1.000	0.650	1.400	0.031S	0.094C	E6 BBL	124.	38.4	181.
CARBON BLACK - FURNACE PROCESS	0.77	LB/TON	570.000	0.570	570.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56
POLYETHYLENE - HIGH DENSITY	1.00	LB/TON	7.400	0.500	50.000	0.000S	0.176C	E6 TONS	1.9	0.0	7.6
AUTOBODY INCINERATORS	0.90	LB/PRD UNIT	1.000	0.460	1.000	0.039S	0.280S	E6 PU	0.29	0.11	0.82
APHONIA - REGENERATOR & CB ABSORBER	0.83	LB/TON	90.000	0.450	90.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
APHONIA - METHANATOR PLANT	0.83	LB/TON	90.000	0.450	90.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
AUTOMOBILE ASSEMBLY	0.91	LB/PRD UNIT	12.600	0.420	21.000	0.040S	0.029C	E6 PU	10.6	4.2	3.5
SYNTHETIC FIBERS NYLON	0.72	LB/TON	7.000	0.350	7.000	0.045S	0.127C	E6 TONS	1.7	0.76	3.9
SYNTHETIC FIBERS ACETATE	0.93	LB/TON	7.000	0.350	7.000	0.045S	0.028C	E6 TONS	0.43	0.19	0.14
PAINT											
PETR. - TANKS - KER - BREATH	0.85	LB/TON	30.000	0.300	30.000	0.067S	0.026C	E6 TONS	4.9	3.3	1.5
PET REF - MISC PT SOURCE	1.00	LB/BARREL	0.435	0.295	0.593	0.031S	0.000S	E6 BBL	75.8	23.5	0.0
PETRLM STRG GASOLINE BRTHNG EXIST.	0.85	LB/TON	0.546	0.293	0.586	0.031S	0.042C	E6 TONS	4937.	1530.	2527.
NEW.	1.00	LB/BARREL	1.490	0.290	2.850	0.031S	0.035C	E6 BBL	477.	148.	196.
PETR8. - TANKS - DB - BREATH	1.00	LB/BARREL	0.431	0.286	0.593	0.031S	0.032C	E6 BBL	643.	199.	238.
FORMALDEHYDE	0.72	LB/TON	22.200	0.280	27.500	0.045S	0.094C	E6 TONS	4.2	1.9	6.1
POLYETHYLENE - LOW DENSITY	0.88	LB/TON	4.200	0.250	25.000	0.006S	0.165C	E6 TONS	4.8	0.29	17.5

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N	UNCERT E U	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
TEXTILE - TEXTURIZING	0.86	LB/TON	0.920	0.230	4.600	0.0425	0.0230	E6 TONS	0.87	0.36	0.22
MALEIC ANHYDRIDE BENZENE OXID.	1.00	LB/TON	147.000	0.172	172.000	0.0455	0.0900	E6 TONS	0.23	0.10	0.31
ACRYLONITRILE	0.90	LB/TON	91.000	0.165	330.000	0.0455	0.0950	E6 TONS	0.83	0.37	1.2
SMOKED MEAT	0.81	LB/TON	0.350	0.150	0.350	0.0405	0.0170	E6 TONS	3.6	1.4	0.66
DEGREASING	0.82	LB/TON	1.150	0.150	1.500	0.0425	0.0320	E6 TONS	1626.	683.	602.
ETHYLENE DICHLORIDE	0.62	LB/TON	19.600	0.140	140.000	0.0455	0.0900	E6 TONS	3.3	1.5	4.5
POLYSTYRENE	0.88	LB/TON	4.200	0.120	11.700	0.0055	0.0750	E6 TONS	2.3	0.12	2.5
BEER	0.81	LB/TON	10.900	0.109	10.900	0.0405	0.0700	E6 TONS	7.2	2.9	7.0
FIBERGLASS MANUF - WBP	0.70	LB/TON	3.390	0.102	3.390	0.0635	0.0420	E6 TONS	1.1	0.68	0.55
POLYVINYL CHLORIDE	0.82	LB/TON	9.600	0.085	17.000	0.0005	0.0780	E6 TONS	2.7	0.0055	3.1
DEEP FAT FRYING	0.81	LB/TON	6.240	0.078	7.750	0.0285	0.0430	E6 TONS	2.6	0.74	1.4
PETR. - REFUELING	0.85	LB/BARREL	0.504	0.076	0.504	0.0315	0.0350	E6 BBL	2950.	915.	1195.
SYNTHETIC RESINS ABS-SAN	0.80	LB/TON	5.760	0.075	7.500	0.0055	0.0720	E6 TONS	0.47	0.023	0.47
SYNTHETIC RESINS PHENOLIC	0.80	LB/TON	5.760	0.075	7.500	0.0055	0.0700	E6 TONS	1.1	0.055	1.1
SYNTHETIC RESINS UREA-MELANINE	0.80	LB/TON	5.760	0.075	7.500	0.0055	0.0730	E6 TONS	0.74	0.037	0.76
COKE OVENS - BY PRODUCT	0.93	LB/TON	5.900	0.060	5.900	0.0285	0.0105	E6 TONS	75.5	21.1	7.5
PETRLM STRG SPC NAP WRKNG EXIST.	0.85	LB/BARREL	0.090	0.056	0.116	0.0315	0.0070	E6 BBL	33.0	10.2	2.4
PETR. - TRANSFER - SP. NAP. NEW	0.85	LB/BARREL	0.090	0.056	0.116	0.0425	0.0070	E6 BBL	17.7	7.4	1.3
PETRLM STRG AV GS WRKNG EXIST.	0.85	LB/BARREL	0.090	0.055	0.116	0.0315	0.0940	E6 BBL	67.0	20.8	37.5
PETR. - TRANSFER - AV GAS NEW	0.85	LB/BARREL	0.090	0.055	0.116	0.0425	0.0940	E6 BBL	35.6	14.8	51.8

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			ALLOWABLE E S	E N		P U	D	C	A 1975	B 1985	C 1985
WISKEY											
PETR. - TRANSFER - JET FUEL	0.95	LB/PRD UNIT	2.760	0.055	2.760	0.032S	0.060S	E6 PU	1.3	0.42	0.78
PETRLM STRG JET FUEL WRKNG	0.85	LB/BARREL	0.090	0.054	0.116	0.042S	0.094C	E6 BBL	146.	60.9	213.
PETRLM STRG JET FUEL WRKNG EXIST.	0.85	LB/BARREL	0.090	0.054	0.116	0.031S	0.094C	E6 BBL	276.	85.6	402.
PETRLM STRG CRD F/L WRKNG NEW.	0.85	LB/BARREL	0.054								
PETRLM STRG CRD F/L WRKNG EXIST.	0.85	LB/BARREL	0.071	0.048	0.084	0.031S	0.042C	E6 BBL	6000.	1860.	3054.
PETRLM STRG CRD F/L WRKNG NEW.	0.85	LB/BARREL	0.048								
PETR. - TRANSFER - CRUDE	0.95	LB/BARREL	0.071	0.048	0.084	0.029S	0.042C	E6 BBL	1440.	418.	737.
TEXTILE - CARPET MFG	0.86	LB/TON	0.720	0.040	0.800	0.042S	0.053C	E6 TONS	1.8	0.76	1.2
PATHOLOGICAL INCINERATOR	0.34	LB/TON	3.800	0.040	3.800	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
PETR. - SERVICE STATIONS	0.85	LB/BARREL	0.229	0.034	0.378	0.031S	0.035C	E6 BBL	2950.	915.	1195.
ASPHALT BLOWING	0.90	LB/TON	2.500	0.025	2.500	0.042S	0.025S	E6 TONS	3.1	1.3	0.79
SYNTHETIC RESINS ALKYL	0.68	LB/TON	1.710	0.017	1.710	0.045S	0.015C	E6 TONS	0.53	0.24	0.085
PETRLM STRG GASOLINE WRKNG EXIST.	0.85	LB/BARREL	0.071	0.012	0.116	0.031S	0.035C	E6 BBL	2950.	915.	1211.
PETRLM STRG GASOLINE WRKNG NEW.	0.85	LB/BARREL	0.012								
PETR. - TRANSFER - GAS	0.85	LB/BARREL	0.071	0.012	0.116	0.042S	0.035C	E6 BBL	1560.	651.	632.
COFFEE ROASTING	0.85	LB/TON	1.100	0.005	1.100	0.040S	0.000S	E6 TONS	1.5	0.62	0.0
POLYPROPYLENE	0.78	LB/TON	0.590	0.003	0.700	0.003S	0.150C	E6 TONS	1.6	0.048	4.9
SEC MAGNESIUM	0.82	LB/TON	3.390	0.003	3.390	0.035S	0.016C	E6 TONS	0.017	0.0061	0.0030
SEC ZINC SWEAT	0.82	LB/TON	2.810	0.003	2.810	0.035S	0.039C	E6 TONS	0.20	0.069	0.091
PET REF - VACUUM DIST.	0.85	LB/TON	0.130	0.000	0.130	0.031S	0.042C	E6 TONS	1846.	572.	945.
LEAD ACID BATTERY PLANTS	0.76	LB/PRD UNIT	0.007	0.000	0.009	0.040S	0.050C	E6 PU	80.0	32.0	50.3
PLYWOOD-VENEER	0.95	LB/TON	0.001	0.000	0.001	0.050S	0.025C	E6 TONS	22600.	11300.	6330.
BOILERS >250 MM	0.58	LB/E6 BTU	0.019	0.000	0.019	0.050S	0.055C	E12 BTU	28011.	14006.	19836.

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES			CAPACITY/PRODUCTION		
			ALLOWABLE E S	E N	UNCENT E U	P D	P C	A	B	C
								1975	1985	1985
ORCHARD HEATERS	1.00	LB/TON	9.200	0.000	9.200	0.033S	0.028S	60.0	19.8	16.8
BOILERS 3-10 MM BTU/HR	0.25	LB/E6 BTU	0.042	0.000	0.042	0.037S	0.043C	26471.	9794.	13857.
BOILERS 10-250 MM BTU/HR	0.32	LB/E6 BTU	0.045	0.000	0.045	0.050S	0.014C	19534.	9767.	2914.
BOILERS <0.3 MM BTU/HR	0.30	LB/E6 BTU	0.019	0.000	0.019	0.020S	0.029C	24572.	4914.	8131.
ASPHALT BATCHING	0.47	LB/TON	0.167	0.000	0.167	0.008S	0.050S	1480.	118.	740.
MUNICIPAL INCINERATOR	0.56	LB/TON	2.700	0.000	2.700	0.039S	0.046S	32.5	12.7	14.9
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.073	0.000	0.073	0.033S	0.027S	35.7	11.8	9.6
INDUSTRIAL COMMERCIAL INCINERATORS	0.38	LB/TON	2.880	0.000	2.880	0.039S	0.110C	32.6	12.7	60.0
INTERNAL COMBUSTION ENGS SPKIGN	0.58	LB/TON	56.000	0.000	56.000	0.020S	0.087S	28.7	5.7	25.0
PETRLM REFINRY PRS GAS CO	0.85	LB/E6 BTU	33.000	0.000	33.000	0.031S	0.042C	0.23	0.070	0.12

HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T-T S N 1985	1 - E / E N S
	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
DIRECT FIRING OF HEAT 85.3	64.1	32.1	32.1	85.3	54.9	30300.	0.570
GRAPHIC ARTS FLEXOGRAPHY 159.	97.9	53.9	53.9	159.	54.9	104000.	0.990
GRAPHIC ARTS - METAL DECORATING 111.	58.9	32.4	37.4	95.9	33.1	62700.	0.988
INTERNAL COMB ENGS DIESEL DUALFUEL 163.	163.	130.	130.	209.	206.	2500.	0.032
GRAPHIC ARTS - LITHOGRAPHY 115.	63.0	34.6	38.8	103.	35.4	67200.	0.989
VEGETABLE OIL PRODUCTION 145.	114.	81.8	82.1	144.	107.	37400.	0.599
GRAPHIC ARTS - LETTERPRESS 108.	66.0	36.3	36.3	108.	37.0	70400.	0.990
PRINTING INK 34.6	8.5	4.7	11.7	13.9	7.0	6800.	0.750
DRY CLEANING 364.	304.	152.	152.	364.	160.	204000.	0.965
PHTHALIC ANHYDRIDE - O-XYLENE 45.4	14.2	11.3	17.0	30.3	12.4	17800.	0.942
CHARCOAL 225.	148.	81.4	81.4	225.	82.8	142000.	0.990
WOOD PULPING KRAFT PROCESS 88.0	78.1	53.9	53.9	88.0	84.8	3200.	0.096
ETHYLENE OXIDE - AIR OXIDATION 597.	290.	159.	159.	597.	164.	433000.	0.990
STYRENE - BUTADIENE RUBBER 4.5	3.7	3.6	3.6	4.5	4.3	240.	0.262
SYNTHETIC RESINS ACRYLIC 255.	9.1	5.0	33.5	38.2	7.2	31000.	0.933
GRAPHIC ARTS-GRVURE 175.	108.	59.2	59.2	175.	59.3	116000.	0.999
PETRLM STRG CRD OIL BRTHNG 1280.	674.	465.	585.	842.	842.	0.0	-0.000
TEXTILE - HEAT SETTING 7.6	1.0	0.61	2.0	2.3	1.4	850.	0.513
PETRLM STRG AV GS BRTHNG 129.	38.1	26.3	36.4	70.4	70.4	0.0	-0.000
PETRLM STRG SPC NAP BRTHNG 27.8	12.2	8.4	17.9	12.9	12.9	0.0	-0.000

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

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HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS				T S 1985	T N 1985	T - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985			
TEXTILE - TEXTURIZING							
MALEIC ANHYDRIDE BENZENE OXID.	2.2	0.34	0.20	1.00	0.43	0.26	0.750
ACRYLONITRILE	46.8	16.9	9.3	10.9	40.0	9.3	0.999
SMOKED MEAT	305.	34.0	18.7	67.8	84.2	18.8	0.998
DEGREASING	0.60	0.51	0.31	0.31	0.60	0.43	0.571
ETHYLENE DICHLORIDE	1370.	767.	445.	580.	1051.	524.	0.870
POLYSTYRENE	339.	20.1	11.0	78.8	47.5	11.3	0.993
BEER	24.9	4.3	4.1	11.5	9.0	4.3	0.971
FIBERGLASS MANUF - WOOL	62.5	31.8	19.1	19.1	62.5	19.5	0.990
POLYVINYL CHLORIDE	1.9	1.3	0.48	0.48	1.9	0.53	0.970
DEEP FAT FRYING	40.5	10.8	10.8	19.1	22.9	10.9	0.991
PETR. - REFUELING	12.6	6.7	4.8	6.0	10.2	4.9	0.988
SYNTHETIC RESINS ABS-SAN	888.	632.	436.	436.	888.	504.	0.849
SYNTHETIC RESINS PHENOLIC	2.8	1.1	1.0	1.3	2.2	1.0	0.987
SYNTHETIC RESINS UREA-MELANINE	6.5	2.5	2.4	3.1	5.0	2.4	0.987
COKE OVENS - BY PRODUCT	4.5	1.7	1.6	2.1	3.4	1.6	0.987
PETRLM STRG SPC NAP WRKNG	228.	207.	149.	149.	228.	150.	0.990
PETR. - TRANSFER - SP. NAP.	1.7	1.3	0.87	1.1	1.2	1.2	0.000
PETRLM STRG AV GS WRKNG	0.94	0.68	0.39	0.51	0.73	0.60	0.378
PETR. - TRANSFER - AVGAS	8.1	2.6	1.8	2.3	4.5	4.5	0.000
	4.3	1.4	0.79	1.0	3.3	2.4	0.389

HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				T N 1985	TONS/YEAR T S N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985				
WHISKEY									
PETR. - TRANSFER - JETFUEL	2.7 17.7	1.7	1.2	1.2	2.7	1.2	1500.	0.980	
PETRLM STRG JET FUEL WKKNG	33.4	10.6	7.3	9.4	18.5	18.5	0.0	0.000	
PETRLM STRG CRD OIL WKKNG	323.	181.	125.	148.	225.	225.	0.0	0.000	
PETR. - TRANSFER - CRUDE	77.7	43.5	30.9	36.5	65.7	54.4	11200.	0.324	
TEXTILE - CARPET MFG	1.1	0.57	0.33	0.37	0.95	0.37	580.	0.944	
PATHOLOGICAL INCINERATOR	0.11	0.084	0.051	0.051	0.11	0.052	50.0	0.989	
PETR - SERVICE STATIONS	666.	287.	198.	327.	403.	229.	174000.	0.852	
ASPHALT BLOWING	4.4	3.5	2.1	2.1	4.4	2.1	2300.	0.990	
SYNTHETIC RESINS ALKYD	0.36	0.31	0.17	0.17	0.36	0.17	180.	0.990	
PETRLM STRG GASOLINE WKKNG	205.	89.0	61.4	100.	72.3	72.3	0.0	0.000	
PETR. - TRANSFER - GAS	108.	47.1	27.4	44.8	66.1	33.8	32300.	0.837	
COFFEE ROASTING	0.72	0.72	0.43	0.43	0.72	0.44	280.	0.995	
POLYPROPYLENE	1.8	0.37	0.36	0.42	1.5	0.36	1100.	0.994	
SEC MAGNESIUM	0.029	0.024	0.016	0.016	0.029	0.016	10.0	0.999	
SEC ZINC SWEAT	0.33	0.23	0.15	0.15	0.33	0.15	180.	0.999	
PET REF - VACUUM DIST.	154.	102.	70.4	70.4	154.	70.4	83700.	0.999	
LEAD ACID BATTERY PLANTS	0.45	0.21	0.12	0.16	0.34	0.13	200.	0.985	
PLYWOOD-VEENEER	10.3	8.1	4.0	4.0	10.3	4.1	6200.	0.990	
BOILERS >250 MM BTU/HR	264.	154.	77.2	77.2	264.	77.2	186000.	1.000	

HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T-T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985		
• ORCHARD HEATERS							
• BOILERS 0.3-10 MM BTU/HR	353.	276.	185.	185.	353.	168000.	1.000
• BOILERS 10-250 MM BTU/HR	212.	139.	87.6	87.6	212.	124000.	1.000
• BOILERS <0.3 MM BTU/HR	162.	141.	70.3	70.3	162.	91200.	1.000
• ASPHALT BATCHING	93.2	70.0	56.0	56.0	93.2	37100.	1.000
• MUNICIPAL INCINERATOR	87.1	58.1	53.4	53.4	87.1	33600.	1.000
• BRICK & RELATED CLAY PRODUCTS	35.9	24.6	15.0	15.0	35.9	20800.	1.000
• INDUSTRIAL COMMERCIAL INCINERATORS	1.3	1.0	0.69	0.69	1.3	620.	1.000
• INTERNAL COMBUSTION ENGS SPKIGN	50.7	17.8	10.9	10.9	50.7	39700.	1.000
• PETRLM REFINRY PRS GAS CO	873.	467.	373.	373.	873.	499000.	1.000
	4.8	3.2	2.2	2.2	4.8	2600.	1.000

E_S (Existing)

HYDR3CARBONS
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION ALLOWABLE E S	EMISSION RATES E N	UNCONT E U	GROWTH RATES DECIMAL/YR P B	P C	UNITS/YR	CAPACITY/PRODUCTION		C
									A	B	
									1975	1985	1985
DIRECT FIRING 3F HEAT											
GRAPHIC ARTS FLEXOGRAPHY	0.62	LB/TON	6136.000	2636.000	6136.000	0.050S	0.033S	E6 TONS	0.034	0.017	0.011
GRAPHIC ARTS - METAL DECORATING	0.80	LB/TON	4800.000	48.000	4800.000	0.045S	0.050C	E6 TONS	0.051	0.023	0.032
GRAPHIC ARTS - LITHOGRAPHY	0.80	LB/TON	3200.000	37.000	3700.000	0.045S	0.050C	E6 TONS	0.046	0.021	0.029
GRAPHIC ARTS-GRAVURE	0.80	LB/TON	2500.000	28.000	2800.000	0.045S	0.050C	E6 TONS	0.063	0.028	0.040
GRAPHIC ARTS - LETTERPRESS	0.80	LB/TON	2300.000	2.300	2300.000	0.045S	0.050C	E6 TONS	0.12	0.053	0.074
CARBON BLACK - FURNACE PROCESS	0.80	LB/TON	1500.000	15.000	1500.000	0.045S	0.050C	E6 TONS	0.11	0.049	0.069
CHARCOAL	0.77	LB/TON	570.000	0.570	570.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56
ETHYLENE OXIDE - AIR OXIDATION	0.85	LB/TON	438.000	4.400	438.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42
DRY CLEANING	0.87	LB/TON	392.000	3.920	392.000	0.045S	0.075C	E6 TONS	1.7	0.76	1.8
PALEIC ANHYDRIDE BENZENE OXID.	1.00	LB/TON	258.000	9.000	258.000	0.050S	0.018C	E6 TONS	2.4	1.2	0.46
ACRYLONITRILE	1.00	LB/TON	147.000	0.172	172.000	0.045S	0.090C	E6 TONS	0.23	0.10	0.31
AMMONIA - METHANATOR PLANT	0.90	LB/TON	91.000	0.165	330.000	0.045S	0.095C	E6 TONS	0.83	0.37	1.2
AMMONIA - REGENERATOR & CO ABSORBER	0.83	LB/TON	90.000	0.450	90.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
PHTHALIC ANHYDRIDE - O-XYLENE	0.83	LB/TON	90.000	0.450	90.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
INTERNAL COMBUSTION ENGS SPKIGN	0.78	LB/TON	86.600	5.000	130.000	0.020S	0.079C	E6 TONS	0.42	0.084	0.48
PRINTING INK	0.58	LB/TON	56.000	0.000	56.000	0.020S	0.087S	E6 TONS	28.7	5.7	25.0
VEGETABLE OIL PRODUCTION	0.82	LB/TON	48.000	12.000	120.000	0.045S	0.050C	E6 TONS	0.43	0.19	0.27
SYNTHETIC RESINS ACRYLIC	0.92	LB/TON	37.900	15.200	38.000	0.028S	0.027S	E6 TONS	6.5	1.8	1.8
VARNISH	0.87	LB/TON	36.000	2.400	240.000	0.045S	0.154C	E6 TONS	0.58	0.26	1.9
PETROL REFINRY PRS GAS CO	0.85	LB/TON	34.900	0.679	67.900	0.067S	0.026C	E6 TONS	1.3	0.86	0.38
	0.85	LB/E6 BTU	33.000	0.000	33.000	0.031S	0.042C	E12 BTU	0.23	0.070	0.12

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION ALLOWABLE E S	EMISSION RATES			GROWTH RATES DECIMAL/YR			UNITS/YR	INDUSTRY CAPACITY/PRODUCTION		
				E	N	U	P	B	P		A 1975	B 1985	C 1985
INTERNAL COMB ENGS DIESEL DUALFUEL													
	0.58	LB/TON	31.300	30.300		31.300	0.020S	0.028S		E6 TONS	18.0	3.6	5.0
PAINT													
	0.85	LB/TON	30.000	0.300		30.000	0.067S	0.026C		E6 TONS	4.9	3.3	1.5
FORMALDEHYDE													
	0.72	LB/TON	22.200	0.280		27.500	0.045S	0.094C		E6 TONS	4.2	1.9	6.1
ETHYLENE DICHLORIDE													
	0.62	LB/TON	19.600	0.140		140.000	0.045S	0.090C		E6 TONS	3.3	1.5	4.5
AUTOMOBILE ASSEMBLY													
	0.91	LB/PRD UNIT	12.600	0.420		21.000	0.040S	0.029C		E6 PU	10.6	4.2	3.5
BEER													
	0.81	LB/TON	10.900	0.109		10.900	0.040S	0.070C		E6 TONS	7.2	2.9	7.0
CORE OVENS													
	0.93	LB/TON	10.500	1.050		10.500	0.028S	0.035S		E6 TONS	23.0	6.4	8.0
POLYVINYL CHLORIDE													
	0.82	LB/TON	9.600	0.085		17.000	0.000S	0.078C		E6 TONS	2.7	0.0055	3.1
ORCHARD HEATERS													
	1.00	LB/TON	9.200	0.000		9.200	0.033S	0.028S		E6 TONS	60.0	19.8	16.8
POLYETHYLENE - HIGH DENSITY													
	1.00	LB/TON	7.400	0.500		50.000	0.000S	0.176C		E6 TONS	1.9	0.0	7.6
SYNTHETIC FIBERS NYLON													
	0.72	LB/TON	7.000	0.350		7.000	0.045S	0.127C		E6 TONS	1.7	0.76	3.9
SYNTHETIC FIBERS ACETATE													
	0.93	LB/TON	7.000	0.350		7.000	0.045S	0.028C		E6 TONS	0.43	0.19	0.14
DEEP FAT FRYING													
	0.81	LB/TON	6.240	0.078		7.750	0.028S	0.043C		E6 TONS	2.6	0.74	1.4
COKE OVENS - BY PRODUCT													
	0.93	LB/TON	5.900	0.060		5.900	0.028S	0.010S		E6 TONS	75.5	21.1	7.5
SYNTHETIC RESINS ABS-SAN													
	0.80	LB/TON	5.760	0.075		7.500	0.005S	0.072C		E6 TONS	0.47	0.023	0.47
SYNTHETIC RESINS PHENOLIC													
	0.80	LB/TON	5.760	0.075		7.500	0.005S	0.070C		E6 TONS	1.1	0.055	1.1
SYNTHETIC RESINS UREA-MELANINE													
	0.80	LB/TON	5.760	0.075		7.500	0.005S	0.073C		E6 TONS	0.74	0.037	0.76
INDUSTRIAL SURFACE COATING													
	0.82	LB/TON	5.340	0.655		6.550	0.042S	0.078C		E6 TONS	867.0	364.0	971.0
WOOD PULPING KRAFT PROCESS													
	0.98	LB/TON	4.690	4.240		4.690	0.031S	0.012C		E6 TONS	34.0	10.5	4.3
POLYSTYRENE													
	0.88	LB/TON	4.200	0.120		11.700	0.005S	0.075C		E6 TONS	2.3	0.12	2.5
STYRENE - BUTADIENE RUBBER													
	0.75	LB/TON	4.200	3.100		4.200	0.003S	0.020C		E6 TONS	2.3	0.070	0.51

SUMMARY OF INPUT/OUTPUT VARIABLES FOR MODEL IV

[illegible]

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR		UNITS/YR	CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E _S	EMISSION E _N		P _B	P _C		A 1975	B 1985	
AUTOBODY INCINERATORS	0.90	LB/PRD UNT	1.000	0.460	1.000	0.039S	0.280S	E6 PU	0.29	0.11	0.82
TEXTILE - TEXTURIZING	0.86	LB/TON	0.920	0.230	4.600	0.042S	0.023C	E6 TONS	0.87	0.36	0.22
TEXTILE - CARPET MFG	0.86	LB/TON	0.720	0.040	0.800	0.042S	0.053C	E6 TONS	1.8	0.76	1.2
POLYPROPYLENE	0.78	LB/TON	0.590	0.003	0.700	0.003S	0.150C	E6 TONS	1.6	0.048	4.9
PET REF - MISC PT SOURCE	0.85	LB/TON	0.586	0.293	0.586	0.031S	0.042C	E6 TONS	4937.	1530.	2527.
PETR. - REFUELING	0.85	LB/BARREL	0.504	0.076	0.504	0.031S	0.035C	E6 BBL	2950.	915.	1195.
PETR. - TANKS - KER - BREATH	1.00	LB/BARREL	0.435	0.295	0.593	0.031S	0.000S	E6 BBL	75.8	23.5	0.0
PETR. - TANKS - D9 - BREATH	1.00	LB/BARREL	0.431	0.286	0.593	0.031S	0.032C	E6 BBL	643.	199.	238.
SMOKED MEAT	0.81	LB/TON	0.350	0.150	0.350	0.040S	0.017C	E6 TONS	3.6	1.4	0.66
PETR - SERVICE STATIONS	0.85	LB/BARREL	0.229	0.034	0.378	0.031S	0.035C	E6 BBL	2950.	915.	1195.
ASPHALT BATCHING	0.47	LB/TON	0.167	0.000	0.167	0.008S	0.050S	E6 TONS	1480.	118.	740.
PET REF - VACUUM DIST.	0.85	LB/TON	0.130	0.000	0.130	0.031S	0.042C	E6 TONS	1846.	572.	945.
PETRLM STRG AV GS WRKNG	0.85	LB/BARREL	0.090	0.055	0.116	0.031S	0.094C	E6 BBL	67.0	20.8	97.5
EXIST - NEW	0.85	LB/BARREL	0.055	0.056	0.116	0.031S	0.007C	E6 BBL	33.0	10.2	2.4
PETRLM STRG SPC NAP WRKNG	0.85	LB/BARREL	0.090	0.056	0.116	0.031S	0.007C	E6 BBL	17.7	7.4	1.3
EXIST - NEW	0.85	LB/BARREL	0.056	0.056	0.116	0.042S	0.007C	E6 BBL	146.	60.9	213.
PETR. - TRANSFER - SP. NAP.	0.85	LB/BARREL	0.090	0.056	0.116	0.042S	0.094C	E6 BBL	35.6	14.8	51.8
PETR. - TRANSFER - JETFUEL	0.85	LB/BARREL	0.090	0.056	0.116	0.042S	0.094C	E6 BBL	276.	85.6	402.
PETR. - TRANSFER - AVGAS	0.85	LB/BARREL	0.090	0.056	0.116	0.031S	0.094C	E6 BBL	35.7	11.8	9.6
PETRLM STRG JET FUEL WRKNG	0.85	LB/BARREL	0.090	0.056	0.116	0.031S	0.094C	E6 BBL	6000.	1860.	3054.
EXIST - NEW	0.85	LB/BARREL	0.054	0.054	0.116	0.031S	0.094C	E6 BBL	35.7	11.8	9.6
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.073	0.000	0.073	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
PETRLM STRG CRD OIL WRKNG	0.85	LB/BARREL	0.071	0.048	0.084	0.031S	0.042C	E6 BBL	6000.	1860.	3054.
EXIST - NEW	0.85	LB/BARREL	0.048	0.048	0.084	0.031S	0.042C	E6 BBL	6000.	1860.	3054.

HYDROCARBONS
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES			INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N	UNCERT E U	DECIMAL/YR P B	DECIMAL/YR P C	UNITS/YR	A 1975	B 1985	C 1985
PETR. - TRANSFER - CRUDE											
PETRLM STRG GASOLINE WKGNG	0.85	LB/BARREL	0.071	0.048	0.084	0.029S	0.042C	E6 BBL	1440.	418.	737.
EXIST.	0.85	LB/BARREL	0.071	0.012	0.116	0.031S	0.035C	E6 BBL	2950.	915.	1211.
NEW.	0.85		0.012								
PETR. - TRANSFER - GAS											
BOILERS 10-250 MM BTU/HR	0.85	LB/BARREL	0.071	0.012	0.116	0.042S	0.035C	E6 BBL	1560.	651.	632.
BOILERS 3-10 MM BTU/HR	0.32	LB/E6 BTU	0.045	0.000	0.045	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
BOILERS <3 MM BTU/HR	0.25	LB/E6 BTU	0.042	0.000	0.042	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
BOILERS >250 MM BTU/HR	0.30	LB/E6 BTU	0.019	0.000	0.019	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
LEAD ACID BATTERY PLANTS	0.58	LB/E6 BTU	0.019	0.000	0.019	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
PLYWOOD-VEENER	0.76	LB/PRD UNT	0.007	0.000	0.009	0.040S	0.050C	E6 PU	80.0	32.0	50.3
	0.95	LB/TON	0.001	0.000	0.001	0.050S	0.025C	E6 TONS	22600.	11300.	6330.

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					T N 1985	T S 1985	T N 1985	T S 1985	T N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985						
DIRECT FIRING OF HEAT	85.3	64.1	32.1	32.1	85.3	54.9	30300.	0.570			
GRAPHIC ARTS FLEXOGRAPHY	153.	97.9	53.9	53.9	159.	54.9	104000.	0.990			
GRAPHIC ARTS - METAL DECORATING	111.	58.9	32.4	37.4	95.9	33.1	62700.	0.988			
GRAPHIC ARTS - LITHOGRAPHY	115.	63.0	34.6	38.8	103.	35.4	67200.	0.989			
GRAPHIC ARTS-GRAVURE	175.	108.	59.2	59.2	175.	59.3	116000.	0.999			
GRAPHIC ARTS - LETTERPRESS	108.	66.0	36.3	36.3	108.	37.0	70400.	0.990			
CARBON BLACK - FURNACE PROCESS	558.	436.	240.	240.	558.	240.	318000.	0.999			
CHARCOAL	225.	148.	81.4	81.4	225.	82.8	142000.	0.990			
ETHYLENE OXIDE - AIR OXIDATION	597.	290.	159.	159.	597.	164.	433000.	0.990			
DRY CLEANING	364.	304.	152.	152.	364.	160.	204000.	0.965			
MALEIC ANHYDRIDE BENZENE OXID.	46.8	16.9	9.3	10.9	40.0	9.3	30600.	0.999			
ACRYLONITRILE	305.	34.0	18.7	67.8	84.2	18.8	65400.	0.998			
AMMONIA - METHANATOR PLANT	981.	415.	228.	228.	981.	232.	749000.	0.995			
AMMONIA - REGENERATOR & CO ABSORBER	981.	415.	228.	228.	981.	232.	749000.	0.995			
PHTHALIC ANHYDRIDE - o-XYLENE	45.4	14.2	11.3	17.0	30.3	12.4	17800.	0.942			
INTERNAL COMBUSTION ENGS SPKIGN	873.	467.	373.	373.	873.	373.	499000.	1.000			
PRINTING INK	34.6	8.5	4.7	11.7	13.9	7.0	6800.	0.750			
VEGETABLE OIL PRODUCTION	145.	114.	81.8	82.1	144.	107.	37400.	0.599			
SYNTHETIC RESINS ACRYLIC	255.	9.1	5.0	33.5	38.2	7.2	31000.	0.933			
VARNISH	48.4	19.2	6.4	12.4	24.9	6.7	18100.	0.981			

HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T-T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985	
PETRLM REFRNRY PPS GAS CO	4.8	3.2	2.2	2.2	4.8	2.2	1.000
INTERNAL COMB ENGS DIESEL DUALFUEL	209.	163.	130.	130.	209.	206.	0.032
PAINT	81.5	62.9	20.9	20.9	81.5	21.5	0.990
FORMALDEHYDE	102.	33.6	18.5	22.9	82.6	19.3	0.987
ETHYLENE DICHLORIDE	339.	20.1	11.0	78.8	47.5	11.3	0.993
AUTOMOBILE ASSEMBLY	135.	60.8	36.5	60.8	80.9	37.9	0.967
BEER	62.5	31.8	19.1	19.1	62.5	19.5	0.990
CORE OVENS	152.	112.	80.9	80.9	152.	87.9	0.900
POLYVINYL CHLORIDE	40.5	10.8	10.8	19.1	22.9	10.9	0.991
• ORCHARD HEATERS	353.	276.	185.	185.	353.	185.	1.000
POLYETHYLENE - HIGH DENSITY	238.	7.0	7.0	47.0	35.2	8.9	0.932
SYNTHETIC FIBERS NYLON	14.2	4.3	2.4	2.4	14.2	2.9	0.950
SYNTHETIC FIBERS ACETATE	1.8	1.4	0.77	0.77	1.8	0.82	0.950
DEEP FAT FRYING	12.6	6.7	4.8	6.0	10.2	4.9	0.988
COKE OVENS - BY PRODUCT	228.	207.	149.	149.	228.	150.	0.990
SYNTHETIC RESINS ABS-SAN	2.8	1.1	1.0	1.3	2.2	1.0	0.987
SYNTHETIC RESINS PHENOLIC	6.5	2.5	2.4	3.1	5.0	2.4	0.987
SYNTHETIC RESINS UREA-MELANINE	4.5	1.7	1.5	2.1	3.4	1.6	0.987
INDUSTRIAL SURFACE COATING	4937.	1899.	1101.	1351.	4025.	1460.	0.877
• 800 PULPING KRAFT PROCESS	88.0	78.1	53.9	53.9	88.0	84.8	0.096

HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TENS/YEAR T S N 1985	1 - E/E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985		
POLYSTYRENE	24.9	4.3	4.1	11.5	9.0	4.3	0.371
STYRENE - BUTADIENE RUBBER	4.5	3.7	3.6	3.6	4.5	4.3	0.262
POLYETHYLENE - LOW DENSITY	246.	9.0	6.4	50.1	41.3	10.4	0.940
PATHOLOGICAL INCINERATOR	0.11	0.084	0.051	0.051	0.11	0.052	0.989
FIBERGLASS MANUF - W08L	1.9	1.3	0.48	0.48	1.9	0.53	0.970
SEC MAGNESIUM	0.029	0.024	0.016	0.016	0.029	0.016	0.999
TEXTILE - HEAT SETTING	7.6	1.0	0.61	2.0	2.3	1.4	0.513
INDUSTRIAL COMMERCIAL INCINERATORS	50.7	17.8	10.9	10.9	50.7	10.9	1.000
SEC ZINC SWEAT	0.33	0.23	0.15	0.15	0.33	0.15	0.999
WHISKEY	2.7	1.7	1.2	1.2	2.7	1.2	0.930
MUNICIPAL INCINERATOR	35.9	24.6	15.0	15.0	35.9	15.0	1.000
ASPHALT BLOWING	4.4	3.5	2.1	2.1	4.4	2.1	0.990
PETRLM STRG CRD OIL BRTHNG	1280.	674.	465.	585.	842.	842.	-0.000
PETRLM STRG AV GS BRTH'G	129.	38.1	26.3	36.4	70.4	70.4	-0.000
MINERAL W08L	3.4	7.0	4.9	4.9	8.4	6.4	0.569
SYNTHETIC RESINS ALKYD	0.36	0.31	0.17	0.17	0.36	0.17	0.990
PETRLM STRG GASOLINE BRTHNG	959.	355.	245.	469.	295.	295.	0.000
PETRLM STRG SPC NAP BRTHNG	27.8	12.2	8.4	17.9	12.9	12.9	-0.000
DEGREASING	1370.	767.	445.	580.	1051.	524.	0.870
COFFEE ROASTING	0.72	0.72	0.43	0.43	0.72	0.44	0.995

HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				T S N 1985	T S N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985			
PETRLM STRG JET FUEL BRTHNG AUTOMODY INCINERATORS	213.	62.0	42.8	59.9	114.	114.	0.0	0.000	
TEXTILE - TEXTURIZING	0.50	0.13	0.080	0.080	0.50	0.27	220.	0.540	
TEXTILE - CARPET MFG	2.2	0.34	0.20	1.00	0.43	0.26	170.	0.750	
POLYPROPYLENE	1.1	0.57	0.33	0.37	0.95	0.37	580.	0.944	
PET REF - MISC PT SOURCE	1.8	0.37	0.36	0.42	1.5	0.36	1100.	0.994	
PETR. - REFUELING	1859.	1230.	848.	848.	1859.	1354.	505000.	0.500	
PETR. - TANKS - KER - BREATH	888.	632.	436.	436.	888.	504.	383000.	0.849	
PETR8. - TANKS - DB - BREATH	22.5	16.5	11.4	15.5	16.5	14.8	1600.	0.322	
SMOKED MEAT	261.	139.	95.6	132.	190.	158.	31700.	0.336	
PETR - SERVICE STATIONS	0.60	0.51	0.31	0.31	0.60	0.43	170.	0.571	
* ASPHALT BATCHING	666.	287.	198.	327.	403.	229.	174000.	0.852	
PET REF - VACUUM DIST.	87.1	58.1	53.4	53.4	87.1	53.4	33600.	1.000	
PETRLM STRG AV GS WRKNG	154.	102.	70.4	70.4	154.	70.4	83700.	0.999	
PETRLM STRG SPC NAP WRKNG	8.1	2.6	1.8	2.3	4.5	4.5	0.0	0.000	
PETR. - TRANSFER - SP. NAP.	1.7	1.3	0.87	1.1	1.2	1.2	0.0	0.000	
PETR. - TRANSFER - JETFUEL	0.94	0.68	0.39	0.51	0.73	0.60	120.	0.378	
PETR. - TRANSFER - AVGAS	17.7	5.6	3.3	4.2	13.7	9.5	4100.	0.400	
PETRLM STRG JET FUEL WRKNG	4.3	1.4	0.79	1.0	3.3	2.4	990.	0.389	
* BRICK & RELATED CLAY PRODUCTS	33.4	10.6	7.3	9.4	18.5	18.5	0.0	0.000	
	1.3	1.0	0.69	0.69	1.3	0.69	620.	1.000	

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1945	T A 1975	EMISSIONS				T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985				
PETRLM STRG CRD OIL WRKNG									
PETR. - TRANSFER - CRUDE	323.	181.	125.	148.	225.	225.	0.0	0.000	
PETRLM STRG GASOLINE WRKNG	77.7	43.5	30.9	36.5	65.7	54.4	11200.	0.324	
PETR. - TRANSFER - GAS	205.	89.0	61.4	100.	72.3	72.3	0.0	0.000	
* BOILERS 10-250 MM BTU/HR	108.	47.1	27.4	44.8	66.1	33.8	32300.	0.837	
* BOILERS .3-10 MM BTU/HR	162.	141.	70.3	70.3	162.	70.3	91200.	1.000	
* BOILERS <.3 MM BTU/HR	212.	139.	87.6	87.6	212.	87.6	124000.	1.000	
* BOILERS >250 MM BTU/HR	93.2	70.0	56.0	56.0	93.2	56.0	37100.	1.000	
LEAD ACID BATTERY PLANTS	264.	154.	77.2	77.2	264.	77.2	186000.	1.000	
PLYWOOD-VENEER	0.45	0.21	0.12	0.16	0.34	0.13	200.	0.985	
	10.3	8.1	4.0	4.0	10.3	4.1	6200.	0.990	

E_S (New)

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION			C 1985
			ALLOWABLE E S	E N	UNCOUNT E U	P B	P C	UNITS/YR	A 1975	B 1985		
PETRLM STRG CRD OIL BRTHNG EXIST. NEW.	1.00 1.00	LB/BARREL	2.290 1.560	1.560	2.880	0.031S	0.042C	E6 BBL	569.	183.		300.
PETRLM STRG AV GS BRTHNG EXIST. NEW.	1.00 1.00	LB/BARREL	2.060 1.350	1.350	2.850	0.031S	0.094C	E6 BBL	37.0	11.5		53.9
PETRLM STRG SPC NAP BRTHNG EXIST. NEW.	1.00 1.00	LB/BARREL	1.340 1.300	1.300	2.850	0.031S	0.007C	E6 BBL	18.2	5.6		1.3
PETRLM STRG JET FUEL BRTHNG EXIST. NEW.	1.00 1.00	LB/BARREL	1.000 0.650	0.650	1.400	0.031S	0.094C	E6 BBL	124.	38.4		181.
PETRLM STRG GASOLINE BRTHNG EXIST. NEW.	1.00 1.00	LB/BARREL	1.490 0.290	0.290	2.850	0.031S	0.035C	E6 BBL	477.	148.		196.
PETRLM STRG SPC NAP WRKNG EXIST. NEW.	0.85 0.85	LB/BARREL	0.090 0.056	0.056	0.116	0.031S	0.007C	E6 BBL	33.0	10.2		2.4
PETRLM STRG AV GS WRKNG EXIST. NEW.	0.85 0.85	LB/BARREL	0.090 0.055	0.055	0.116	0.031S	0.094C	E6 BBL	67.0	20.8		97.5
PETRLM STRG JET FUEL WRKNG EXIST. NEW.	0.85 0.85	LB/BARREL	0.090 0.054	0.054	0.116	0.031S	0.094C	E6 BBL	276.	85.6		402.
PETRLM STRG CRD OIL WRKNG EXIST. NEW.	0.85 0.85	LB/BARREL	0.071 0.048	0.048	0.084	0.031S	0.042C	E6 BBL	6000.	1860.		3054.
PETRLM STRG GASOLINE WRKNG EXIST. NEW.	0.85 0.85	LB/BARREL	0.071 0.012	0.012	0.116	0.031S	0.035C	E6 BBL	2950.	915.		1211.

HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS			T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
			T E 1985	T UE 1985	T S 1985			
PETRLM STRG CRD OIL BRTHNG	1280.	674.	465.	585.	842.	842.	0.0	-0.000
PETRLM STRG AV GS BRTHNG	129.	38.1	26.3	36.4	70.4	70.4	0.0	-0.000
PETRLM STRG SPC NAP BRTHNG	27.8	12.2	8.4	17.9	12.9	12.9	0.0	-0.000
PETRLM STRG JET FUEL BRTHNG	213.	62.0	42.8	59.9	114.	114.	0.0	0.000
PETRLM STRG GASOLINE BRTHNG	959.	355.	245.	469.	295.	295.	0.0	0.000
PETRLM STRG SPC NAP WRKNG	1.7	1.3	0.87	1.1	1.2	1.2	0.0	0.000
PETRLM STRG AV GS WRKNG	8.1	2.6	1.8	2.3	4.5	4.5	0.0	0.000
PETRLM STRG JET FUEL WRKNG	33.4	10.6	7.3	9.4	18.5	18.5	0.0	0.000
PETRLM STRG CRD OIL WRKNG	323.	181.	125.	148.	225.	225.	0.0	0.000
PETRLM STRG GASOLINE WRKNG	205.	89.0	61.4	100.	72.3	72.3	0.0	0.000

E
U

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C
			ALLOWABLE E S	EMISSION E N		P B	P C	UNITS/YR	A 1975	B 1985	
DIRECT FIRING OF MEAT	0.62	LB/TON	6136.000	2636.000	5136.000	0.050S	0.033S	E6 TONS	0.034	0.017	0.011
GRAPHIC ARTS FLEXOGRAPHY	0.80	LB/TON	4800.000	48.000	4800.000	0.045S	0.050C	E6 TONS	0.051	0.023	0.032
GRAPHIC ARTS - METAL DECATING	0.80	LB/TON	3200.000	37.000	3700.000	0.045S	0.050C	E6 TONS	0.046	0.021	0.029
GRAPHIC ARTS - LITHOGRAPHY	0.80	LB/TON	2500.000	28.000	2800.000	0.045S	0.050C	E6 TONS	0.063	0.028	0.040
GRAPHIC ARTS-GRVURE	0.80	LB/TON	2300.000	2.300	2300.000	0.045S	0.050C	E6 TONS	0.12	0.053	0.074
GRAPHIC ARTS - LETTERPRESS	0.80	LB/TON	1500.000	15.000	1500.000	0.045S	0.050C	E6 TONS	0.11	0.049	0.069
CARBON BLACK - FURNACE PROCESS	0.77	LB/TON	570.000	0.570	570.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56
CHARCOAL	0.25	LB/TON	438.000	4.400	438.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42
ETHYLENE OXIDE - AIR OXIDATION	0.87	LB/TON	392.000	3.320	392.000	0.045S	0.075C	E6 TONS	1.7	0.76	1.8
ACRYLONITRILE	0.90	LB/TON	91.000	0.165	330.000	0.045S	0.095C	E6 TONS	0.83	0.37	1.2
DRY CLEANING	1.00	LB/TON	258.000	9.000	258.000	0.050S	0.018C	E6 TONS	2.4	1.2	0.46
SYNTHETIC RESINS ACRYLIC	0.87	LB/TON	36.000	2.400	240.000	0.045S	0.154C	E6 TONS	0.58	0.26	1.9
MALEIC ANHYDRIDE BENZENE OXID.	1.00	LB/TON	147.000	0.172	172.000	0.045S	0.090C	E6 TONS	0.23	0.10	0.31
ETHYLENE DICHLORIDE	0.62	LB/TON	19.600	0.140	140.000	0.045S	0.090C	E6 TONS	3.3	1.5	4.5
FTHALIC ANHYDRIDE - 9-XYLENE	0.78	LB/TON	86.600	5.000	130.000	0.020S	0.079C	E6 TONS	0.42	0.084	0.48
PRINTING INK	0.83	LB/TON	48.000	12.000	120.000	0.045S	0.050C	E6 TONS	0.43	0.19	0.27
AMMONIA - METHANATOR PLANT	0.83	LB/TON	90.000	0.450	90.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
AMMONIA - REGENERATOR & CO ABSORBER	0.83	LB/TON	90.000	0.450	90.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
VARNISH	0.85	LB/TON	34.900	0.679	67.900	0.067S	0.026C	E6 TONS	1.3	0.86	0.38
INTERNAL COMBUSTION ENGS SPKIGN	0.58	LB/TON	56.000	0.000	56.000	0.020S	0.087S	E6 TONS	28.7	5.7	25.0
POLYETHYLENE - HIGH DENSITY	1.00	LB/TON	7.400	0.500	50.000	0.000S	0.176C	E6 TONS	1.9	0.0	7.6

HYDRSCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCENT E	GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E	UN N		P	B	C	A	B	C
			S						1975	1985	1985
VEGETABLE OIL PRODUCTION											
0.92		LB/TON	37.900	15.200	38.000	0.028S	0.027S	0.027S	6.5	1.8	1.8
PETRLM REFRNRY PRG GAS C8		LB/TON	33.000	0.000	33.000	0.031S	0.042C	0.042C	0.23	0.070	0.12
INTERNAL COMB ENGS DIESEL DUALFUEL		LB/TON	31.300	30.300	31.300	0.020S	0.028S	0.028S	18.0	3.6	5.0
0.56		LB/TON	30.000	0.300	30.000	0.067S	0.026C	0.026C	4.9	3.3	1.5
FORMALDEHYDE		LB/TON	22.200	0.280	27.500	0.045S	0.094C	0.094C	4.2	1.9	6.1
POLYETHYLENE - LOW DENSITY		LB/TON	4.200	0.250	25.000	0.006S	0.165C	0.165C	4.8	0.29	17.5
0.88		LB/TON	12.600	0.420	21.000	0.040S	0.029C	0.029C	10.6	4.2	3.5
ALUMINUM ASSEMBLY		LB/PRD UNIT	9.600	0.085	17.000	0.000S	0.078C	0.078C	2.7	0.0055	3.1
POLYVINYL CHLORIDE		LB/TON	4.200	0.120	11.700	0.005S	0.075C	0.075C	2.3	0.12	2.5
0.82		LB/TON	10.900	0.109	10.900	0.040S	0.070C	0.070C	7.2	2.9	7.0
POLYSTYRENE		LB/TON	10.500	1.050	10.500	0.028S	0.035S	0.035S	23.0	6.4	8.0
0.86		LB/TON	3.054	1.486	10.180	0.042S	0.081C	0.081C	0.79	0.33	0.93
ORCHARD HEATERS		LB/TON	9.200	0.000	9.200	0.033S	0.028S	0.028S	60.0	19.8	16.8
DEEP FAT FRYING		LB/TON	6.240	0.078	7.750	0.028S	0.043C	0.043C	2.6	0.74	1.4
0.81		LB/TON	5.760	0.075	7.500	0.005S	0.070C	0.070C	1.1	0.055	1.1
SYNTHETIC RESINS PHENOLIC		LB/TON	5.760	0.075	7.500	0.005S	0.072C	0.072C	0.47	0.023	0.47
0.80		LB/TON	5.760	0.075	7.500	0.005S	0.073C	0.073C	0.74	0.037	0.76
SYNTHETIC RESINS ABS-SAN		LB/TON	7.000	0.350	7.000	0.045S	0.028C	0.028C	0.43	0.19	0.14
0.80		LB/TON	7.000	0.350	7.000	0.045S	0.127C	0.127C	1.7	0.76	3.9
SYNTHETIC RESINS UREA-MELANINE		LB/TON	5.340	0.655	6.550	0.042S	0.078C	0.078C	867.	364.	971.
0.93		LB/TON	5.900	0.060	5.900	0.028S	0.010S	0.010S	75.5	21.1	7.5
SYNTHETIC FIBERS NYLON		LB/TON	7.000	0.350	7.000	0.045S	0.028C	0.028C	0.43	0.19	0.14
0.72		LB/TON	5.340	0.655	6.550	0.042S	0.078C	0.078C	867.	364.	971.
INDUSTRIAL SURFACE COATING		LB/TON	5.900	0.060	5.900	0.028S	0.010S	0.010S	75.5	21.1	7.5
0.82		LB/TON	5.340	0.655	6.550	0.042S	0.078C	0.078C	867.	364.	971.
COKE OVENS - BY PRODUCT		LB/TON	5.900	0.060	5.900	0.028S	0.010S	0.010S	75.5	21.1	7.5
0.93		LB/TON	5.900	0.060	5.900	0.028S	0.010S	0.010S	75.5	21.1	7.5

HYDROCARBONS
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E U	GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E S	E N		P B	C	A 1975	B 1985	C 1985	
COFFEE ROASTING	0.85	LB/TON	1.100	0.005	1.100	0.040S	0.000S	E6 TONS	1.5	0.62	0.0
AUTOBODY INCINERATORS	0.90	LB/PRD UNIT	1.000	0.460	1.000	0.039S	0.280S	E6 PU	0.29	0.11	0.82
TEXTILE - CARPET MFG	0.86	LB/TON	0.720	0.040	0.800	0.042S	0.053C	E6 TONS	1.8	0.76	1.2
POLYPROPYLENE	0.78	LB/TON	0.590	0.003	0.700	0.003S	0.150C	E6 TONS	1.6	0.048	4.9
PETR. - TANKS - DR - BREATH	1.00	LB/BARREL	0.431	0.286	0.593	0.031S	0.032C	E6 BBL	643.	199.	238.
PETR. - TANKS - KER - BREATH	1.00	LB/BARREL	0.435	0.295	0.593	0.031S	0.000S	E6 BBL	75.8	23.5	0.0
PET REF - MISC PT SOURCE	0.85	LB/TON	0.586	0.293	0.586	0.031S	0.042C	E6 TONS	4937.	1530.	2527.
PETR. - REFUELING	0.85	LB/BARREL	0.504	0.076	0.504	0.031S	0.035C	E6 BBL	2950.	915.	1195.
PETR - SERVICE STATIONS	0.85	LB/BARREL	0.229	0.034	0.378	0.031S	0.035C	E6 BBL	2950.	915.	1195.
SMOKED MEAT	0.81	LB/TON	0.350	0.150	0.350	0.040S	0.017C	E6 TONS	3.6	1.4	0.65
ASPHALT BATCHING	0.47	LB/TON	0.167	0.000	0.167	0.008S	0.050S	E6 TONS	1480.	118.	740.
PET REF - VACUUM DIST.	0.85	LB/TON	0.130	0.000	0.130	0.031S	0.042C	E6 TONS	1846.	572.	945.
PETRLM STRG AV GS WRKNG EXIST.	0.95	LB/BARREL	0.090	0.055	0.116	0.031S	0.094C	E6 BBL	67.0	20.8	97.5
NEW.	0.85		0.055								
PETR. - TRANSFER - GAS	0.85	LB/BARREL	0.071	0.012	0.116	0.042S	0.035C	E6 BBL	1560.	651.	632.
PETR. - TRANSFER - SP. NAP.	0.85	LB/BARREL	0.090	0.056	0.116	0.042S	0.007C	E6 BBL	17.7	7.4	1.3
PETRLM STRG GASOLINE WRKNG EXIST.	0.85	LB/BARREL	0.071	0.012	0.116	0.031S	0.035C	E6 BBL	2950.	915.	1211.
NEW.	0.85		0.012								
PETR. - TRANSFER - AVGAS	0.85	LB/BARREL	0.090	0.055	0.116	0.042S	0.094C	E6 BBL	35.6	14.8	51.8
PETRLM STRG JET FUEL WRKNG EXIST.	0.85	LB/BARREL	0.090	0.054	0.116	0.031S	0.094C	E6 BBL	276.	85.6	402.
NEW.	0.85		0.054								
PETR. - TRANSFER - JETFUEL	0.85	LB/BARREL	0.090	0.054	0.116	0.042S	0.094C	E6 BBL	146.	60.9	213.
PETRLM STRG SPC NAP WRKNG EXIST.	0.85	LB/BARREL	0.090	0.056	0.116	0.031S	0.007C	E6 BBL	33.0	10.2	2.4
NEW.	0.85		0.056								

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			ALLOWABLE E S	E N	UNCENT E U	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
PETR. - TRANSFER - CRUDE											
PETROLEUM STRG CRD	0.85	LB/BARREL	0.071	0.048	0.084	0.029S	0.042C	E6 BBL	1440.	418.	737.
EXIST.	0.85	LB/BARREL	0.071	0.048	0.084	0.031S	0.042C	E6 BBL	6000.	1860.	3054.
NEW	0.85		0.048								
BRICK & RELATED CLAY PRODUCTS											
BOILERS 10-250 MM BTU/HR	0.80	LB/TON	0.073	0.000	0.073	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
BOILERS 3-10 MM BTU/HR	0.32	LB/E6 BTU	0.045	0.000	0.045	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
BOILERS <3 MM BTU/HR	0.25	LB/E6 BTU	0.042	0.000	0.042	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
BOILERS >250 MM BTU/HR	0.30	LB/E6 BTU	0.019	0.000	0.019	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
LEAD ACID BATTERY PLANTS	0.58	LB/E6 BTU	0.019	0.000	0.019	0.050S	0.055C	E12 BTU	28011.	14008.	19836.
PLYWOOD-VENEER	0.76	LB/PRD UNIT	0.007	0.000	0.009	0.040S	0.050C	E6 PU	80.0	32.0	50.3
	0.95	LB/TON	0.001	0.000	0.001	0.050S	0.025C	E6 TONS	22600.	11300.	6330.

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS						TBNs/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TBNs/YEAR T UE 1985	T S 1985	T N 1985		
DIRECT FIRING OF HEAT								
GRAPHIC ARTS FLEXOGRAPHY	85.3	64.1	32.1	32.1	85.3	54.9	0.570	
GRAPHIC ARTS - METAL DECORATING	159.	97.9	53.9	53.9	159.	54.9	0.990	
GRAPHIC ARTS - LITHOGRAPHY	111.	58.9	32.4	37.4	95.9	33.1	0.988	
GRAPHIC ARTS-GRAVURE	115.	63.0	34.6	38.8	103.	35.4	0.989	
GRAPHIC ARTS - LETTERPRESS	175.	108.	59.2	59.2	175.	59.3	0.999	
CARBON BLACK - FURNACE PROCESS	108.	66.0	36.3	36.3	108.	37.0	0.990	
CHARCOAL	558.	436.	240.	240.	558.	240.	0.999	
ETHYLENE OXIDE - AIR OXIDATION	225.	148.	81.4	81.4	225.	82.8	0.990	
ACRYLONITRILE	597.	290.	159.	159.	597.	164.	0.990	
DRY CLEANING	305.	34.0	18.7	67.8	84.2	18.8	0.998	
SYNTHETIC RESINS ACRYLIC	364.	304.	152.	152.	364.	160.	0.965	
MALEIC ANHYDRIDE BENZENE OXID.	255.	9.1	3.0	33.5	38.2	7.2	0.933	
ETHYLENE DICHLORIDE	46.8	16.9	9.3	10.9	40.0	9.3	0.999	
PHTHALIC ANHYDRIDE - o-XYLENE	339.	20.1	11.0	78.8	47.5	11.3	0.993	
PRINTING INK	45.	14.2	11.3	17.0	30.3	12.4	0.942	
AMMONIA - METHANATOR PLANT	34.6	8.5	4.7	11.7	13.9	7.0	0.750	
AMMONIA - REGENERATOR & CO ABSORBER	981.	415.	228.	228.	981.	232.	0.995	
VARNISH	981.	415.	228.	228.	981.	232.	0.995	
INTERNAL COMBUSTION ENGS SPKIGN	48.4	19.2	6.4	12.4	24.9	6.7	0.981	
	873.	467.	373.	373.	873.	373.	1.000	

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE

EMISSIONS
1000 TONS/YEAR

SOURCE	T U 1985	T A 1975	T E 1985	T UE 1985	T S 1985	T N 1985	TONS/YEAR T-T S N 1985	1 - E / E N S
POLYETHYLENE - HIGH DENSITY		7.0	7.0	47.0	35.2	8.9	26300.	0.932
VEGETABLE OIL PRODUCTION	238.							
PETRLM REFRNY PRS GAS C8	145.	114.	81.8	82.1	144.	107.	37400.	0.599
INTERNAL COMB ENGS DIESEL DUALFUEL	4.8	3.2	2.2	2.2	4.8	2.2	2600.	1.000
PAINT	209.	163.	130.	130.	209.	206.	2500.	0.032
FORMALDEHYDE	81.5	62.9	20.9	20.9	81.5	21.5	59900.	0.990
POLYETHYLENE - LOW DENSITY	102.	33.6	18.5	22.9	82.6	19.3	63300.	0.987
AUTOMOBILE ASSEMBLY	246.	9.0	8.4	50.1	41.3	10.4	30800.	0.940
POLYVINYL CHLORIDE	135.	60.8	36.5	60.8	80.9	37.9	42900.	0.967
POLYSTYRENE	40.5	10.8	10.8	19.1	22.9	10.9	11900.	0.991
BEER	24.9	4.3	4.1	11.5	9.0	4.3	4600.	0.971
CORE OVENS	62.5	31.8	19.1	19.1	62.5	19.5	43000.	0.990
TEXTILE - HEAT SETTING	152.	112.	80.9	80.9	152.	87.9	63600.	0.900
* BRCHARD HEATERS	7.6	1.0	0.61	2.0	2.3	1.4	850.	0.513
DEEP FAT FRYING	353.	276.	185.	185.	353.	185.	168000.	1.000
SYNTHETIC RESINS PHENOLIC	12.6	6.7	4.8	6.0	10.2	4.9	5200.	0.988
SYNTHETIC RESINS ABS-SAN	6.5	2.5	2.4	3.1	5.0	2.4	2500.	0.987
SYNTHETIC RESINS UREA-MELANINE	2.8	1.1	1.0	1.3	2.2	1.0	1100.	0.987
SYNTHETIC FIBERS ACETATE	4.5	1.7	1.6	2.1	3.4	1.6	1800.	0.987
SYNTHETIC FIBERS NYLON	1.8	1.4	0.77	0.77	1.8	0.82	1000.	0.950
	14.2	4.3	2.4	2.4	14.2	2.9	11200.	0.950

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				T N 1985	TONS/YEAR T - T S N 1985	I - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985			
INDUSTRIAL SURFACE COATING 4937.		1899.	1101.	1301.	4025.	1460.	2560000.	0.877	
COKE OVENS - BY PRODUCT 228.		207.	149.	149.	228.	150.	77900.	0.990	
WOOD PULPING KRAFT PROCESS 88.0		78.1	53.9	53.9	88.0	84.8	3200.	0.096	
TEXTILE - TEXTURIZING 2.2		0.34	0.20	1.00	0.43	0.26	170.	0.750	
STYRENE - BUTADIENE RUBBER 4.5		3.7	3.6	3.6	4.5	4.3	240.	0.262	
PATHOLOGICAL INCINERATOR 0.11		0.084	0.051	0.051	0.11	0.052	50.0	0.989	
FIBERGLASS MANUF - WOOD 1.9		1.3	0.48	0.48	1.9	0.53	1400.	0.970	
SEC MAGNESIUM 0.029		0.024	0.016	0.016	0.029	0.016	10.0	0.999	
* INDUSTRIAL COMMERCIAL INCINERATORS 50.7		17.8	10.9	10.9	50.7	10.9	39700.	1.000	
PETRLM STRG CRD OIL BRTHNG 1280.		674.	465.	585.	842.	842.	0.0	-0.000	
PETRLM STRG SPC NAP BRTHNG 27.8		12.2	8.4	17.9	12.9	12.9	0.0	-0.000	
PETRLM STRG AV GS BRTHNG 129.		38.1	26.3	36.4	70.4	70.4	0.0	-0.000	
PETRLM STRG GASOLINE BRTHNG 959.		355.	245.	469.	295.	295.	0.0	0.000	
SEC ZINC SWEAT 0.33		0.23	0.15	0.15	0.33	0.15	180.	0.999	
WHISKEY 2.7		1.7	1.2	1.2	2.7	1.2	1500.	0.980	
* MUNICIPAL INCINERATOR 35.9		24.6	15.0	15.0	35.9	15.0	20800.	1.000	
ASPHALT BLOWING 4.4		3.5	2.1	2.1	4.4	2.1	2300.	0.990	
MINERAL WOOD 3.4		7.0	4.9	4.9	8.4	6.4	1900.	0.563	
SYNTHETIC RESINS ALKYD 0.36		0.31	0.17	0.17	0.36	0.17	180.	0.990	
DEGREASING 1370.		767.	445.	580.	1051.	524.	526000.	0.870	

HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS							TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985			
PETRLM STRG JET FUEL BRTNG									
COFFEE ROASTING	213.	62.0	42.8	59.9	114.	114.	0.0	0.000	
AUTOBODY INCINERATORS	0.72	0.72	0.43	0.43	0.72	0.44	280.	0.995	
TEXTILE - CARPET MFG	0.50	0.13	0.080	0.080	0.50	0.27	220.	0.540	
POLYPROPYLENE	1.1	0.57	0.33	0.37	0.95	0.37	580.	0.944	
PETRO. - TANKS - DO - BREATH	1.8	0.37	0.36	0.42	1.5	0.36	1100.	0.994	
PETR. - TANKS - KER - BREATH	261.	139.	95.6	132.	190.	158.	31700.	0.336	
PET REF - MISC PT SOURCE	22.5	16.5	11.4	15.5	16.5	14.8	1600.	0.322	
PETR. - REFUELING	1859.	1230.	848.	848.	1859.	1354.	505000.	0.500	
PETR - SERVICE STATIONS	888.	632.	436.	436.	888.	504.	383000.	0.849	
SMOKED MEAT	666.	287.	198.	327.	403.	229.	174000.	0.852	
• ASPHALT BATCHING	0.60	0.51	0.31	0.31	0.60	0.43	170.	0.571	
PET REF - VACUUM DIST.	87.1	58.1	53.4	53.4	87.1	53.4	33600.	1.000	
PETRLM STRG AV GS WRKNG	154.	102.	70.4	70.4	154.	70.4	83700.	0.999	
PETR. - TRANSFER - GAS	8.1	2.6	1.8	2.3	4.5	4.5	0.0	0.000	
PETR. - TRANSFER - SP. NAP.	108.	47.1	27.4	44.8	66.1	33.8	32300.	0.837	
PETRLM STRG GASOLINE WRKNG	0.94	0.68	0.39	0.51	0.73	0.60	120.	0.378	
PETR. - TRANSFER - AVGAS	205.	89.0	61.4	100.	72.3	72.3	0.0	0.000	
PETRLM STRG JET FUEL WRKNG	4.3	1.4	0.79	1.0	3.3	2.4	990.	0.389	
PETR. - TRANSFER - JETFUEL	33.4	10.6	7.3	9.4	18.5	18.5	0.0	0.000	
	17.7	5.6	3.3	4.2	13.7	9.5	4100.	0.400	

HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS							TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985			
PETRLM STRG SPC NAP WRKNG	1.7	1.3	0.87	1.1	1.2	1.2	0.0	0.000	
PETR. - TRANSFER - CRUDE	77.7	43.5	30.9	36.5	65.7	54.4	11200.	0.324	
PETRLM STRG CRD OIL WRKNG	323.	181.	125.	148.	225.	225.	0.0	0.000	
• BRICK & RELATED CLAY PRODUCTS	1.3	1.0	0.69	0.69	1.3	0.69	620.	1.000	
• BOILERS 10-250 MM BTU/HR	162.	141.	70.3	70.3	162.	70.3	91200.	1.000	
• BOILERS .3-10 MM BTU/HR	212.	139.	87.6	87.6	212.	87.6	124000.	1.000	
• BOILERS <.3 MM BTU/HR	93.2	70.0	56.0	56.0	93.2	56.0	37100.	1.000	
• BOILERS >250 MM BTU/HR	264.	154.	77.2	77.2	264.	77.2	186000.	1.000	
LEAD ACID BATTERY PLANTS	0.45	0.21	0.12	0.16	0.34	0.13	200.	0.985	
PLYWOOD-VENEER	10.3	8.1	4.0	4.0	10.3	4.1	6200.	0.990	

$$\underline{1 - E_N/E_S}$$

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION			C
			ALLOWABLE E S	EMISSION E N	UNCONT E U	P B	P C	A 1975	B 1985	1985	
PETRLM REFINRY PRS GAS CO	0.85	LB/E6 BTU	33.000	0.000	33.000	0.031S	0.042C	0.23	0.070	0.12	
BOILERS >250 MM BTU/HR	0.58	LB/E6 BTU	0.019	0.000	0.019	0.050S	0.055C	28011.	14006.	19836.	
ORCHARD HEATERS	1.00	LB/TON	9.200	0.000	9.200	0.033S	0.028S	60.0	19.8	16.8	
BOILERS -3-10 MM BTU/HR	0.25	LB/E6 BTU	0.042	0.000	0.042	0.037S	0.043C	26471.	9794.	13857.	
BOILERS 10-250 MM BTU/HR	0.32	LB/E6 BTU	0.045	0.000	0.045	0.050S	0.014C	19534.	9767.	2914.	
BOILERS <.3 MM BTU/HR	0.30	LB/E6 BTU	0.019	0.000	0.019	0.020S	0.029C	24572.	4914.	8131.	
ASPHALT BATCHING	0.47	LB/TON	0.167	0.000	0.167	0.008S	0.050S	1480.	118.	740.	
MUNICIPAL INCINERATOR	0.56	LB/TON	2.700	0.000	2.700	0.039S	0.046S	32.5	12.7	14.9	
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.073	0.000	0.073	0.033S	0.027S	35.7	11.8	9.6	
INTERNAL COMBUSTION ENGS SPKIGN	0.58	LB/TON	56.000	0.000	56.000	0.020S	0.087S	28.7	5.7	25.0	
INDUSTRIAL COMMERCIAL INCINERATORS	0.34	LB/TON	2.880	0.000	2.880	0.039S	0.110C	32.6	12.7	60.0	
PET REF - VACUUM DIST.	0.85	LB/TON	0.130	0.000	0.130	0.031S	0.042C	1846.	572.	945.	
SEC ZINC SWEAT	0.82	LB/TON	2.810	0.003	2.810	0.035S	0.039C	0.20	0.069	0.091	
GRAPHIC ARTS-GRAVURE	0.80	LB/TON	2300.000	2.370	2300.000	0.045S	0.050C	0.12	0.053	0.074	
CARBON BLACK - FURNACE PROCESS	0.77	LB/TON	570.000	0.570	570.000	0.045S	0.025C	2.0	0.89	0.56	
SEC MAGNESIUM	0.82	LB/TON	3.390	0.003	3.390	0.035S	0.016C	0.017	0.0061	0.0030	
MALEIC ANHYDRIDE BENZENE OXID.	1.00	LB/TON	147.000	0.172	172.000	0.045S	0.090C	0.23	0.10	0.31	
ACRYLONITRILE	0.90	LB/TON	91.000	0.165	330.000	0.045S	0.095C	0.83	0.37	1.2	
AMMONIA - METHANATOR PLANT	0.83	LB/TON	90.000	0.450	90.000	0.045S	0.090C	11.1	5.0	15.2	
COFFEE ROASTING	0.85	LB/TON	1.100	0.005	1.100	0.040S	0.000S	1.5	0.62	0.0	
AMMONIA - REGENERATOR & CO ABSORBER	0.83	LB/TON	90.000	0.450	90.000	0.045S	0.090C	11.1	5.0	15.2	

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			UNITS/YR	CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N		P	B	C		A	B	C
					U					1975	1985	1985
POLYPROPYLENE	0.78	LB/TON	0.590	0.003	0.700	0.003S	0.150C		E6 TONS	1.6	0.048	4.9
ETHYLENE DICHLORIDE	0.62	LB/TON	19.600	0.140	140.000	0.045S	0.090C		E6 TONS	3.3	1.5	4.5
POLYVINYL CHLORIDE	0.82	LB/TON	9.600	0.085	17.000	0.000S	0.078C		E6 TONS	2.7	0.0055	3.1
SYNTHETIC RESINS ALKYL	0.68	LB/TON	1.710	0.017	1.710	0.045S	0.015C		E6 TONS	0.53	0.24	0.085
ETHYLENE OXIDE - AIR OXIDATION	0.87	LB/TON	392.000	3.920	392.000	0.045S	0.075C		E6 TONS	1.7	0.76	1.8
GRAPHIC ARTS - LETTERPRESS	0.80	LB/TON	1500.000	15.000	1500.000	0.045S	0.050C		E6 TONS	0.11	0.049	0.069
FLYASPHALT-VEENEER	0.95	LB/TON	0.001	0.000	0.001	0.050S	0.025C		E6 TONS	22600.	11300.	6330.
GRAPHIC ARTS FLEXOGRAPHY	0.80	LB/TON	4800.000	48.000	4800.000	0.045S	0.050C		E6 TONS	0.051	0.023	0.032
ASPHALT BLOWING	0.90	LB/TON	2.500	0.025	2.500	0.042S	0.025S		E6 TONS	3.1	1.3	0.79
PAINT	0.85	LB/TON	30.000	0.300	30.000	0.067S	0.026C		E6 TONS	4.9	3.3	1.5
BEER	0.81	LB/TON	10.900	0.109	10.900	0.040S	0.070C		E6 TONS	7.2	2.9	7.0
CHARCOAL	0.85	LB/TON	438.000	4.400	438.000	0.045S	0.043C		E6 TONS	0.79	0.36	0.42
COKE OVENS - BY PRODUCT	0.93	LB/TON	5.900	0.060	5.900	0.028S	0.010S		E6 TONS	75.5	21.1	7.5
PATHOLOGICAL INCINERATOR	0.34	LB/TON	3.800	0.040	3.800	0.039S	0.026C		E6 TONS	0.13	0.051	0.038
GRAPHIC ARTS - LITHOGRAPHY	0.80	LB/TON	2500.000	28.000	2800.000	0.045S	0.050C		E6 TONS	0.063	0.028	0.040
GRAPHIC ARTS - METAL DECORATING	0.80	LB/TON	3200.000	37.000	3700.000	0.045S	0.050C		E6 TONS	0.046	0.021	0.029
DEEP FAT FRYING	0.81	LB/TON	6.240	0.078	7.750	0.028S	0.043C		E6 TONS	2.6	0.74	1.4
FORMALDEHYDE	0.72	LB/TON	22.200	0.280	27.500	0.045S	0.094C		E6 TONS	4.2	1.9	6.1
SYNTHETIC RESINS PHENOLIC	0.80	LB/TON	5.760	0.075	7.500	0.005S	0.070C		E6 TONS	1.1	0.055	1.1
SYNTHETIC RESINS ABS-SAN	0.80	LB/TON	5.760	0.075	7.500	0.005S	0.072C		E6 TONS	0.47	0.023	0.47
SYNTHETIC RESINS UREA-MELANINE	0.80	LB/TON	5.760	0.075	7.500	0.005S	0.073C		E6 TONS	0.74	0.037	0.76

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION			C 1985
			ALLOWABLE E	S	N	U	P	B	A 1975	B 1985	C 1985	
LEAD ACID BATTERY PLANTS	0.76	LB/PRD UNIT	0.007		0.000	0.009	0.040S	0.050C	80.0	32.0	50.3	
VARNISH												
	0.85	LB/TON	34.90C		0.679	67.900	0.067S	0.026C	1.3	0.86	0.38	
WHISKEY												
	0.95	LB/PRD UNIT	2.760		0.055	2.760	0.032S	0.060S	1.3	0.42	0.78	
POLYSTYRENE												
	0.88	LB/TON	4.200		0.120	11.700	0.005S	0.075C	2.3	0.12	2.5	
FIBERGLASS MANUF - WOOD												
	0.70	LB/TON	3.390		0.102	3.390	0.063S	0.042C	1.1	0.68	0.55	
AUTOMOBILE ASSEMBLY												
	0.91	LB/PRD UNIT	12.600		0.420	21.000	0.040S	0.029C	10.6	4.2	3.5	
CRY CLEANING												
	1.00	LB/TON	258.000		9.000	258.000	0.050S	0.018C	2.4	1.2	0.46	
SYNTHETIC FIBERS NYLON												
	0.72	LB/TON	7.000		0.350	7.000	0.045S	0.127C	1.7	0.76	3.9	
SYNTHETIC FIBERS ACETATE												
	0.93	LB/TON	7.000		0.350	7.000	0.045S	0.028C	0.43	0.19	0.14	
TEXTILE - CARPET MFG												
	0.86	LB/TON	0.720		0.040	0.800	0.042S	0.053C	1.8	0.76	1.2	
PTHALIC ANHYDRIDE - 8-XYLENE												
	0.78	LB/TON	86.600		5.000	130.000	0.020S	0.079C	0.42	0.084	0.48	
POLYETHYLENE - LOW DENSITY												
	0.88	LB/TON	4.200		0.250	25.000	0.006S	0.165C	4.8	0.29	17.5	
SYNTHETIC RESINS ACRYLIC												
	0.87	LB/TON	36.000		2.400	240.000	0.045S	0.154C	0.58	0.26	1.9	
POLYETHYLENE - HIGH DENSITY												
	1.00	LB/TON	7.400		0.500	50.000	0.000S	0.176C	1.9	0.0	7.6	
CORE OVENS												
	0.93	LB/TON	10.500		1.050	10.500	0.028S	0.035S	23.0	6.4	8.0	
INDUSTRIAL SURFACE COATING												
	0.82	LB/TON	5.340		0.655	6.550	0.042S	0.078C	867.	364.	971.	
DEGREASING												
	0.82	LB/TON	1.150		0.150	1.500	0.042S	0.032C	1626.	683.	602.	
PETR - SERVICE STATIONS												
	0.85	LB/BARREL	0.229		0.034	0.378	0.031S	0.035C	2950.	915.	1195.	
PETR. - REFUELING												
	0.85	LB/BARREL	0.504		0.076	0.504	0.031S	0.035C	2950.	915.	1195.	
PETR. - TRANSFER - GAS												
	0.85	LB/BARREL	0.071		0.012	0.116	0.042S	0.035C	1560.	651.	632.	
PRINTING INK												
	0.83	LB/TON	48.000		12.000	120.000	0.045S	0.050C	0.43	0.19	0.27	

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCENT E U	GROWTH RATES DECIMAL/YR		UNITS/YR	CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	E N		P B	P C		A 1975	B 1985	
TEXTILE - TEXTURIZING	0.86	LB/TON	0.920	0.230	4.600	0.042S	0.023C	E6 TONS	0.87	0.36	0.22
VEGETABLE OIL PRODUCTION	0.92	LB/TON	37.900	15.200	38.000	0.028S	0.027S	E6 TONS	6.5	1.8	1.8
SMOKED MEAT	0.91	LB/TON	0.350	0.150	0.350	0.040S	0.017C	E6 TONS	3.6	1.4	0.66
DIRECT FIRING OF HEAT	0.62	LB/TON	6136.000	2636.000	6136.000	0.050S	0.033S	E6 TONS	0.034	0.017	0.011
PINERAL WOOL	0.82	LB/TON	2.020	0.870	2.020	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
AUTOBODY INCINERATORS	0.90	LB/PRD UNIT	1.000	0.460	1.000	0.039S	0.0280S	E6 PU	0.29	0.11	0.82
TEXTILE - HEAT SETTING	0.86	LB/TON	3.054	1.486	10.180	0.042S	0.081C	E6 TONS	0.79	0.33	0.93
FET REF - MISC PT SOURCE	0.85	LB/TON	0.586	0.293	0.586	0.031S	0.042C	E6 TONS	4937.	1530.	2527.
PETR. - TRANSFER - JETFUEL	0.85	LB/BARREL	0.090	0.054	0.116	0.042S	0.094C	E6 BBL	146.	60.9	213.
PETR. - TRANSFER - AVGAS	0.85	LB/BARREL	0.090	0.055	0.116	0.042S	0.094C	E6 BBL	35.6	14.8	51.8
PETR. - TRANSFER - SP. NAP.	0.85	LB/BARREL	0.090	0.056	0.116	0.042S	0.007C	E6 BBL	17.7	7.4	1.3
PETR. - TANKS - D8 - BREATH	1.00	LB/BARREL	0.431	0.286	0.593	0.031S	0.032C	E6 BBL	643.	199.	238.
PETR. - TRANSFER - CRUDE	0.85	LB/BARREL	0.071	0.048	0.084	0.029S	0.042C	E6 BBL	1440.	418.	737.
PETR. - TANKS - KER - BREATH	1.00	LB/BARREL	0.435	0.295	0.593	0.031S	0.000S	E6 BBL	75.8	23.5	0.0
STYRENE - BUTADIENE RUBBER	0.75	LB/TON	4.200	3.100	4.200	0.003S	0.020C	E6 TONS	2.3	0.070	0.51
WOOD PULPING KRAFT PROCESS	0.98	LB/TON	4.690	4.240	4.690	0.031S	0.012C	E6 TONS	34.0	10.5	4.3
INTERNAL COMB ENGS DIESEL DUALFUEL	0.58	LB/TON	31.300	30.300	31.300	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
PETRLM STRG AV GS WRKNG	0.85	LB/BARREL	0.090	0.055	0.116	0.031S	0.094C	E6 BBL	67.0	20.8	97.5
EXIST. NEW	0.85	LB/BARREL	0.055								
PETRLM STRG CRD	0.85	LB/BARREL	0.071	0.048	0.084	0.031S	0.042C	E6 BBL	6000.	1860.	3054.
EXIST. NEW	0.85	LB/BARREL	0.048								
PETRLM STRG GASOLINE WRKNG	0.85	LB/BARREL	0.071	0.012	0.116	0.031S	0.035C	E6 BBL	2950.	915.	1211.
EXIST. NEW	0.85	LB/BARREL	0.012								

HYDROCARBONS
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		INDUSTRY C 1985
			ALLOWABLE E S	EMISSION E N	UNCON- T E U	P P	B B	A A 1975	B B 1985	
PETRLM STRG EXIST. NEW.	GASOLINE 1.00 1.00	LB/BRREL LB/BRREL	1.490 0.290	0.290	2.850	0.031S	0.035C	477.	148.	196.
PETRLM STRG EXIST. NEW.	JET FUEL 0.85 0.85	LB/BRREL LB/BRREL	0.090 0.054	0.054	0.116	0.031S	0.094C	276.	85.6	402.
PETRLM STRG EXIST. NEW.	JET FUEL 1.00 1.00	BRTHNG LB/BRREL	1.000 0.650	0.650	1.400	0.031S	0.094C	124.	38.4	181.
PETRLM STRG EXIST. NEW.	SPC NAP 0.85 0.85	WRKNG LB/BRREL	0.090 0.056	0.056	0.116	0.031S	0.007C	33.0	10.2	2.4
PETRLM STRG EXIST. NEW.	CRD OIL 1.00 1.00	BRTHNG LB/BRREL	2.290 1.560	1.560	2.880	0.031S	0.042C	589.	183.	300.
PETRLM STRG EXIST. NEW.	AV GS 1.00 1.00	BRTHNG LB/BRREL	2.060 1.350	1.350	2.850	0.031S	0.094C	37.0	11.5	53.9
PETRLM STRG EXIST. NEW.	SPC NAP 1.00 1.00	BRTHNG LB/BRREL	1.340 1.300	1.300	2.850	0.031S	0.007C	18.2	5.6	1.3

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T-T S N 1985
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	
PETROLEUM REFINERY PRS GAS CO	4.8	3.2	2.2	2.2	4.8	2600.
* BOILERS >250 MM BTU/HR	264.	154.	77.2	77.2	264.	186000.
* ORCHARD HEATERS	353.	276.	185.	185.	353.	168000.
* BOILERS .3-10 MM BTU/HR	212.	139.	87.6	87.6	212.	124000.
* BOILERS 10-250 MM BTU/HR	162.	141.	70.3	70.3	162.	91200.
* BOILERS <.3 MM BTU/HR	93.2	70.0	56.0	56.0	93.2	37100.
* ASPHALT BATCHING	87.1	58.1	53.4	53.4	87.1	33600.
* MUNICIPAL INCINERATOR	35.9	24.6	15.0	15.0	35.9	20800.
* BRICK & RELATED CLAY PRODUCTS	1.3	1.0	0.69	0.69	1.3	620.
* INTERNAL COMBUSTION ENGS SPKIGN	873.	467.	373.	373.	873.	499000.
* INDUSTRIAL COMMERCIAL INCINERATORS	50.7	17.8	10.9	10.9	50.7	39700.
PET REF - VACUUM DIST.	154.	102.	70.4	70.4	154.	83700.
SEC ZINC SWEAT	0.33	0.23	0.15	0.15	0.33	180.
GRAPHIC ARTS-GRAVURE	175.	108.	59.2	59.2	175.	116000.
CARBON BLACK - FURNACE PROCESS	558.	436.	240.	240.	558.	318000.
SEC MAGNESIUM	0.029	0.024	0.016	0.016	0.029	10.0
MALEIC ANHYDRIDE BENZENE OXID.	46.8	16.9	9.3	10.9	40.0	30600.
ACRYLONITRILE	305.	34.0	18.7	67.8	84.2	65400.
AMMONIA - METHANATOR PLANT	981.	415.	228.	228.	981.	749000.
COFFEE ROASTING	0.72	0.72	0.43	0.43	0.72	280.

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS				T N 1985	T S N 1985
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985		
AMMONIA - REGENERATOR & CO ABSORBER	981.	415.	228.	228.	981.	749000.
POLYPROPYLENE	1.8	0.37	0.36	0.42	1.5	1100.
ETHYLENE DICHLORIDE	339.	20.1	11.0	78.8	47.5	36100.
POLYVINYL CHLORIDE	40.5	10.8	10.8	19.1	22.9	11900.
SYNTHETIC RESINS ALKYL	0.3	0.31	0.17	0.17	0.36	180.
ETHYLENE OXIDE - AIR OXIDATION	597.	290.	159.	159.	597.	433000.
GRAPHIC ARTS - LETTERPRESS	108.	66.0	36.3	36.3	108.	70400.
PLYWOOD-VENEER	10.3	8.1	4.0	4.0	10.3	6200.
GRAPHIC ARTS FLEXOGRAPHY	159.	97.9	53.9	53.9	159.	104000.
ASPHALT BLOWING	4.4	3.5	2.1	2.1	4.4	2300.
PAINT	81.5	62.9	20.9	20.9	81.5	59900.
BEER	62.5	31.8	19.1	19.1	62.5	43000.
CHARCOAL	225.	148.	81.4	81.4	225.	142000.
COKE OVENS - BY PRODUCT	229.	207.	149.	149.	228.	77900.
PATHOLOGICAL INCINERATOR	0.11	0.084	0.051	0.051	0.11	50.0
GRAPHIC ARTS - LITHOGRAPHY	115.	63.0	34.6	38.8	103.	67200.
GRAPHIC ARTS - METAL DECORATING	111.	58.9	32.4	37.4	95.9	62700.
DEEP FAT FRYING	12.6	6.7	4.8	6.0	10.2	5200.
FORMALDEHYDE	102.	33.6	18.5	22.9	82.6	63300.
SYNTHETIC RESINS PHENOLIC	6.5	2.5	2.4	3.1	5.0	2500.

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS			T S N 1985	T S N 1985	I - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985			
SYNTHETIC RESINS ABS-SAN 2.8		1.1	1.0	1.3	2.2	1.0	1100.	0.987
SYNTHETIC RESINS UREA-MELANINE 4.5		1.7	1.6	2.1	3.4	1.6	1800.	0.987
LEAD ACID BATTERY PLANTS 0.45		0.21	0.12	0.16	0.34	0.13	200.	0.985
VARNISH 48.4		19.2	6.4	12.4	24.9	6.7	18100.	0.981
WHISKEY 2.7		1.7	1.2	1.2	2.7	1.2	1500.	0.980
POLYSTYRENE 24.9		4.3	4.1	11.5	9.0	4.3	4600.	0.971
FIBERGLASS MANUF - WOL 1.9		1.3	0.48	0.48	1.9	0.53	1400.	0.970
AUTOMOBILE ASSEMBLY 135.		60.8	36.5	60.8	80.9	37.9	42900.	0.967
DRY CLEANING 364.		304.	152.	152.	364.	160.	204000.	0.965
SYNTHETIC FIBERS NYLON 14.2		4.3	2.4	2.4	14.2	2.9	11200.	0.950
SYNTHETIC FIBERS ACETATE 1.8		1.4	0.77	0.77	1.8	0.82	1000.	0.950
TEXTILE - CARPET MFG 1.1		0.57	0.33	0.37	0.95	0.37	550.	0.944
PHTHALIC ANHYDRIDE - 8-XYLENE 45.4		14.2	11.3	17.0	30.3	12.4	17800.	0.942
POLYETHYLENE - LOW DENSITY 246.		9.0	8.4	50.1	41.3	10.4	30800.	0.940
SYNTHETIC RESINS ACRYLIC 255.		9.1	5.0	33.5	38.2	7.2	31000.	0.933
POLYETHYLENE - HIGH DENSITY 238.		7.0	7.0	47.0	35.2	8.9	26300.	0.932
CORE OVENS 152.		112.	80.9	80.9	152.	87.9	63600.	0.900
INDUSTRIAL SURFACE COATING 4937.		1899.	1101.	1351.	4025.	1460.	2560000.	0.877
DEGREASING 1370.		767.	445.	580.	1051.	524.	526000.	0.870
PETR - SERVICE STATIONS 666.		287.	198.	327.	403.	229.	174000.	0.852

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS			T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985			
PETR. - REFUELING	888.	632.	436.	436.	888.	504.	383000.	0.849
PETR. - TRANSFER - GAS	108.	47.1	27.4	44.8	66.1	33.8	32300.	0.837
PRINTING INK	34.6	8.5	4.7	11.7	13.9	7.0	6800.	0.750
TEXTILE - TEXTURIZING	2.2	0.34	0.20	1.00	0.43	0.26	170.	0.750
VEGETABLE OIL PRODUCTION	145.	114.	81.8	82.1	144.	107.	37400.	0.599
SMOKED MEAT	0.60	0.51	0.31	0.31	0.60	0.43	170.	0.571
DIRECT FIRING OF MEAT	85.3	64.1	32.1	32.1	85.3	54.9	30300.	0.570
MINERAL WOOL	8.4	7.0	4.9	4.9	8.4	6.4	1900.	0.569
AUTOBODY INCINERATORS	0.50	0.13	0.080	0.080	0.50	0.27	220.	0.540
TEXTILE - HEAT SETTING	7.6	1.0	0.61	2.0	2.3	1.4	850.	0.513
PET REF - MISC PT SOURCE	1859.	1230.	848.	848.	1859.	1354.	505000.	0.500
PETR. - TRANSFER - JETFUEL	17.7	5.6	3.3	4.2	13.7	9.5	4100.	0.400
PETR. - TRANSFER - AVGAS	4.3	1.4	0.79	1.0	3.3	2.4	930.	0.389
PETR. - TRANSFER - SP. NAP.	0.94	0.68	0.39	0.51	0.73	0.60	120.	0.378
PETR. - TANKS - D8 - BREATH	261.	139.	95.6	132.	190.	158.	31700.	0.336
PETR. - TRANSFER - CRUDE	77.7	43.5	30.9	36.5	65.7	54.4	11200.	0.324
PETR. - TANKS - KER - BREATH	22.5	16.5	11.4	15.5	16.5	14.8	1600.	0.322
STYRENE - BUTADIENE RUBBER	4.5	3.7	3.6	3.6	4.5	4.3	240.	0.262
WOOD PULPING KRAFT PROCESS	88.0	78.1	53.9	53.9	88.0	84.8	3200.	0.096
INTERNAL COMB ENGS DIESEL DUALFUEL	209.	163.	130.	130.	209.	206.	2500.	0.032

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS				T S 1985	T N 1985	T S N 1985	1 - E / E N S
	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T N 1985				
PETRLM STRG AV GS WRKNG	8.1	2.6	1.8	2.3	4.5	4.5	0.0	0.000
PETRLM STRG CRD OIL WRKNG	323.	181.	125.	148.	225.	225.	0.0	0.000
PETRLM STRG GASOLINE WRKNG	205.	89.0	61.4	100.	72.3	72.3	0.0	0.000
PETRLM STRG GASOLINE BRTHNG	959.	355.	245.	469.	295.	295.	0.0	0.000
PETRLM STRG JET FUEL WRKNG	33.4	10.6	7.3	9.4	18.5	18.5	0.0	0.000
PETRLM STRG JET FUEL BRTHNG	213.	62.0	42.8	59.9	114.	114.	0.0	0.000
PETRLM STRG SPC NAP WRKNG	1.7	1.3	0.87	1.1	1.2	1.2	0.0	0.000
PETRLM STRG CRD OIL BRTHNG	1280.	674.	465.	585.	842.	842.	0.0	-0.000
PETRLM STRG AV GS BRTHNG	129.	38.1	26.3	36.4	70.4	70.4	0.0	-0.000
PETRLM STRG SPC NAP BRTHNG	27.8	12.2	8.4	17.9	12.9	12.9	0.0	-0.000

P_B

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N	UNCONT E U	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
PAINT	0.85	LB/TON	30.000	0.300	30.000	0.067S	0.026C	E6 TONS	4.9	3.3	1.5
VARNISH	0.85	LB/TON	34.900	0.679	67.900	0.067S	0.026C	E6 TONS	1.3	0.86	0.38
FIBERGLASS MANUF - W88L	0.70	LB/TON	3.390	0.102	3.390	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
DRY CLEANING	1.00	LB/TON	258.000	9.000	258.000	0.050S	0.018C	E6 TONS	2.4	1.2	0.46
PLYWOOD-VENEER	0.95	LB/TON	0.001	0.000	0.001	0.050S	0.025C	E6 TONS	22600.	11300.	6330.
DIRECT FIRING OF HEAT	0.62	LB/TON	6136.000	2636.000	6136.000	0.050S	0.033S	E6 TONS	0.034	0.017	0.011
BOILERS >250 MM BTU/HR	0.58	LB/E6 BTU	0.019	0.000	0.019	0.050S	0.055C	E12 BTU	28011.	14005.	19836.
BOILERS 10-250 MM BTU/HR	0.32	LB/E6 BTU	0.045	0.000	0.045	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
GRAPHIC ARTS - LETTERPRESS	0.80	LB/TON	1500.000	15.000	1500.000	0.045S	0.050C	E6 TONS	0.11	0.049	0.069
GRAPHIC ARTS - LITHOGRAPHY	0.80	LB/TON	2500.000	28.000	2800.000	0.045S	0.050C	E6 TONS	0.063	0.028	0.040
GRAPHIC ARTS - METAL DECORATING	0.80	LB/TON	3200.000	37.000	3700.000	0.045S	0.050C	E6 TONS	0.046	0.021	0.029
ACRYLONITRILE	0.90	LB/TON	91.000	0.165	330.000	0.045S	0.095C	E6 TONS	0.83	0.37	1.2
FORMALDEHYDE	0.72	LB/TON	22.200	0.280	27.500	0.045S	0.094C	E6 TONS	4.2	1.9	6.1
AMMONIA - REGENERATOR & CO ABSORBER	0.83	LB/TON	90.000	0.450	90.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
ETHYLENE DICHLORIDE	0.62	LB/TON	19.600	0.140	140.000	0.045S	0.090C	E6 TONS	3.3	1.5	4.5
ETHYLENE OXIDE - AIR OXIDATION	0.87	LB/TON	392.000	3.920	392.000	0.045S	0.075C	E6 TONS	1.7	0.76	1.8
CARBON BLACK - FURNACE PROCESS	0.77	LB/TON	570.000	0.570	570.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56
PRINTING INK	0.83	LB/TON	48.000	12.000	120.000	0.045S	0.050C	E6 TONS	0.43	0.19	0.27
AMMONIA - METHANATOR PLANT	0.83	LB/TON	90.000	0.450	90.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
CHARCOAL	0.85	LB/TON	438.000	4.400	438.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42
GRAPHIC ARTS-GRAVURE	0.80	LB/TON	2300.000	2.300	2300.000	0.045S	0.050C	E6 TONS	0.12	0.053	0.074

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
F9R MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E U	GROWTH RATES DECIMAL/YR		C	UNITS/YR	CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	EMISSION E N		P B	P C			A 1975	B 1985	
GRAPHIC ARTS FLEXOGRAPHY	0.80	LB/TON	4800.000	48.000	4800.000	0.045S	0.050C	0.051	0.023		0.032	
SYNTHETIC RESINS ACRYLIC	0.87	LB/TON	36.000	2.400	240.000	0.045S	0.154C	0.58	0.26		1.9	
MALEIC ANHYDRIDE BENZENE OXID.	1.00	LB/TON	147.000	0.172	172.000	0.045S	0.090C	0.23	0.10		0.31	
SYNTHETIC FIBERS NYLON	0.72	LB/TON	7.000	0.350	7.000	0.045S	0.127C	1.7	0.76		3.9	
SYNTHETIC FIBERS ACETATE	0.93	LB/TON	7.000	0.350	7.000	0.045S	0.028C	0.43	0.19		0.14	
SYNTHETIC RESINS ALKYL	0.68	LB/TON	1.710	0.017	1.710	0.045S	0.015C	0.53	0.24		0.085	
ASPHALT BLOWING	0.90	LB/TON	2.500	0.025	2.500	0.042S	0.025S	3.1	1.3		0.79	
DEGREASING	0.82	LB/TON	1.150	0.150	1.500	0.042S	0.032C	1626.	683.		602.	
INDUSTRIAL SURFACE COATING	0.82	LB/TON	5.340	0.655	4.550	0.042S	0.078C	867.	364.		971.	
PETR. - TRANSFER - GAS	0.85	LB/BARREL	0.071	0.012	0.116	0.042S	0.035C	1560.	651.		632.	
PETR. - TRANSFER - JETFUEL	0.85	LB/BARREL	0.090	0.054	0.116	0.042S	0.094C	146.	60.9		213.	
PETR. - TRANSFER - AVGAS	0.85	LB/BARREL	0.090	0.055	0.116	0.042S	0.094C	35.6	14.8		51.8	
TEXTILE - HEAT SETTING	0.86	LB/TON	3.054	1.486	10.180	0.042S	0.081C	0.79	0.33		0.93	
TEXTILE - CARPET MFG	0.86	LB/TON	0.720	0.040	0.800	0.042S	0.053C	1.8	0.76		1.2	
TEXTILE - TEXTURIZING	0.86	LB/TON	0.920	0.230	4.600	0.042S	0.023C	0.87	0.36		0.22	
PETR. - TRANSFER - SP. NAP.	0.85	LB/BARREL	0.090	0.056	0.116	0.042S	0.007C	17.7	7.4		1.3	
AUTOMOBILE ASSEMBLY	0.91	LB/PRD UNIT	12.600	0.420	21.000	0.040S	0.029C	10.6	4.2		3.5	
COFFEE ROASTING	0.85	LB/TON	1.100	0.005	1.100	0.040S	0.000S	1.5	0.62		0.0	
SMOKED MEAT	0.81	LB/TON	0.350	0.150	0.350	0.040S	0.017C	3.6	1.4		0.66	
LEAD ACID BATTERY PLANTS	0.76	LB/PRD UNIT	0.007	0.000	0.009	0.040S	0.050C	80.0	32.0		50.3	
BEER	0.81	LB/TON	10.900	0.109	10.900	0.040S	0.070C	7.2	2.9		7.0	

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES			CAPACITY/PRODUCTION		C
			ALLOWABLE E S	E N	UNCONT E U	P B	P C	A 1975	B 1985	
AUTOBODY INCINERATORS	0.90	LB/PRD UNIT	1.000	0.460	1.000	0.039S	0.280S	0.29	0.11	0.82
PATHOLOGICAL INCINERATOR	0.34	LB/TON	3.800	0.040	3.800	0.039S	0.026C	0.13	0.051	0.038
INDUSTRIAL COMMERCIAL INCINERATORS	0.38	LB/TON	2.880	0.000	2.880	0.039S	0.110C	32.6	12.7	60.0
MUNICIPAL INCINERATOR	0.56	LB/TON	2.700	0.000	2.700	0.039S	0.046S	32.5	12.7	14.9
BOILERS - 3-10 MM BTU/HR	0.25	LB/E6 BTU	0.042	0.000	0.042	0.037S	0.043C	26471.	9794.	13857.
SEC MAGNESIUM	0.82	LB/TON	3.390	0.003	3.390	0.035S	0.016C	0.017	0.0061	0.0030
SEC ZINC SHEAT	0.82	LB/TON	2.810	0.003	2.810	0.035S	0.039C	0.20	0.069	0.091
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.073	0.000	0.073	0.033S	0.027S	35.7	11.8	9.6
ORCHARD HEATERS	1.00	LB/TON	9.200	0.000	9.200	0.033S	0.028S	60.0	19.8	16.8
WHISKEY	0.95	LB/PRD UNIT	2.760	0.055	2.760	0.032S	0.060S	1.3	0.42	0.78
PETRLM STRG JET FUEL BRTNG	1.00	LB/BARREL	1.000	0.650	1.400	0.031S	0.094C	12.4.	38.4	181.
EXIST. NEW	1.00	LB/BARREL	0.650							
PETRLM STRG SPC NAP WRKNG	0.85	LB/BARREL	0.090	0.056	0.116	0.031S	0.007C	33.0	10.2	2.4
EXIST. NEW	0.85	LB/BARREL	0.056							
PETRLM STRG SPC NAP BRTNG	1.00	LB/BARREL	1.340	1.700	2.850	0.031S	0.007C	18.2	5.6	1.3
EXIST. NEW	1.00	LB/BARREL	1.300							
PETR - SERVICE STATIONS	0.85	LB/BARREL	0.229	0.034	0.378	0.031S	0.035C	2950.	915.	1195.
PETR. - TANKS - KER - BREATH	1.00	LB/BARREL	0.435	0.295	0.593	0.031S	0.000S	75.8	23.5	0.0
PET REF - VACUUM DIST.	0.85	LB/TON	0.130	0.000	0.130	0.031S	0.042C	1846.	572.	945.
PET REF - MISC PT SOURCE	0.85	LB/TON	0.586	0.293	0.586	0.031S	0.042C	4937.	1530.	2527.
PETR. - REFUELING	0.85	LB/TON	0.504	0.076	0.504	0.031S	0.035C	2950.	915.	1195.
PETRO. - TANKS - DB - BREATH	1.00	LB/BARREL	0.431	0.286	0.593	0.031S	0.032C	643.	199.	238.
PETROL REFNR PRS GAS C6	0.85	LB/E6 BTU	33.000	0.000	33.000	0.031S	0.042C	0.23	0.070	0.12

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION			C 1985
			ALLOWABLE E S	E N	UNCENT E U	P B	P C	UNITS/YR	A 1975	B 1985		
PETRLM STRG AV GS WRKNG EXIST* NEW*	0.85 0.85	LB/BARREL	0.090 0.055	0.055	0.116	0.031S	0.094C	E6 BBL	67.0	20.8	97.5	
PETRLM STRG AV GS BRTHNG EXIST* NEW*	1.00 1.00	LB/BARREL	2.060 1.350	1.350	2.850	0.031S	0.094C	E6 BBL	37.0	11.5	53.9	
WOOD PULPING KRAFT PROCESS EXIST* NEW*	0.98 0.85	LB/TON	4.690 0.071 0.048	4.240 0.048	4.690 0.084	0.031S	0.012C 0.042C	E6 TONS E6 BBL	34.0 6000.	10.5 1860.	4.3 3054.	
PETRLM STRG CRD OIL WRKNG EXIST* NEW*	1.00 1.00	LB/BARREL	2.290 1.560	1.560	2.880	0.031S	0.042C	E6 BBL	589.	183.	300.	
PETRLM STRG GASOLINE WRKNG EXIST* NEW*	0.85 0.85	LB/BARREL	0.071 0.012	0.012	0.116	0.031S	0.035C	E6 BBL	2950.	915.	1211.	
PETRLM STRG GASOLINE BRTHNG EXIST* NEW*	1.00 1.00	LB/BARREL	1.490 0.290	0.290	2.850	0.031S	0.035C	E6 BBL	477.	148.	196.	
PETRLM STRG JET FUEL WRKNG EXIST* NEW*	0.85 0.85	LB/BARREL	0.090 0.054	0.054	0.116	0.031S	0.094C	E6 BBL	276.	85.6	402.	
MINERAL WOOD												
PETR. - TRANSFER - CRUDE	0.82	LB/TON	2.020	0.870	2.020	0.029S	0.020S	E6 TONS	8.4	2.5	1.7	
CORE OVENS	0.85	LB/BARREL	0.071	0.048	0.084	0.029S	0.042C	E6 BBL	1440.	418.	737.	
DEEP FAT FRYING	0.93	LB/TON	10.500	1.050	10.500	0.028S	0.035S	E6 TONS	23.0	6.4	8.0	
VEGETABLE OIL PRODUCTION	0.21 0.92	LB/TON	6.240	0.078	7.750	0.028S	0.043C	E6 TONS	2.6	0.74	1.4	
COKE OVENS - BY PRODUCT	0.93	LB/TON	37.900	15.200	38.000	0.028S	0.027S	E6 TONS	6.5	1.8	1.8	
INTERNAL COMB ENGS DIESEL DUALFUEL	0.93 0.58	LB/TON LB/TON	5.900	0.060	5.900	0.028S	0.010S	E6 TONS	75.5	21.1	7.5	
PHTHALIC ANHYDRIDE - B-XYLENE	0.78	LB/TON	31.300	30.300	31.300	0.020S	0.028S	E6 TONS	18.0	3.6	5.0	
INTERNAL COMBUSTION ENGS SPKIGN	0.58	LB/TON	86.600	5.000	130.000	0.020S	0.079C	E6 TONS	0.42	0.084	0.48	
BOILERS < 3 MM BTU/HR	0.30	LB/E6 BTU	56.000	0.000	56.000	0.020S	0.087S	E6 TONS	28.7	5.7	25.0	
			0.019	0.000	0.019	0.020S	0.029C	E12 BTU	24572.	4914.	8131.	

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES DECIMAL/YR		UNITS/YR	CAPACITY/PRODUCTION		INDUSTRY B	C 1985
			ALLOWABLE E S	EMISSION E N	UNCERT E U	P P	C C	A 1975	B 1985		
ASPHALT BATCHING	0.47	LB/TON	0.167	0.000	0.167	0.003S	0.050S	1480.	118.		740.
POLYETHYLENE - LOW DENSITY	0.88	LB/TON	4.200	0.250	25.000	0.006S	0.165C	4.8	0.29		17.5
POLYSTYRENE	0.88	LB/TON	4.200	0.120	11.700	0.005S	0.075C	2.3	0.12		2.5
SYNTHETIC RESINS ABS-SAN	0.80	LB/TON	5.760	0.075	7.500	0.005S	0.072C	0.47	0.023		0.47
SYNTHETIC RESINS PHENOLIC	0.80	LB/TON	5.760	0.075	7.500	0.005S	0.070C	1.1	0.055		1.1
SYNTHETIC RESINS UREA-MELANINE	0.80	LB/TON	5.760	0.075	7.500	0.005S	0.073C	0.74	0.037		0.76
POLYPROPYLENE	0.78	LB/TON	0.590	0.003	0.700	0.003S	0.150C	1.6	0.048		4.9
STYRENE - BUTADIENE RUBBER	0.75	LB/TON	4.200	3.100	4.200	0.003S	0.020C	2.3	0.070		0.51
POLYVINYL CHLORIDE	0.82	LB/TON	9.600	0.085	17.000	0.000S	0.078C	2.7	0.0055		3.1
POLYETHYLENE - HIGH DENSITY	1.00	LB/TON	7.400	0.500	50.000	0.000S	0.176C	1.9	0.0		7.6

HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS							TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985			
PAINT									
VARNISH	81.5	62.9	20.9	20.9	81.5	21.5	59900.	0.990	
FIBERGLASS MANUF - 108L	48.4	19.2	6.4	12.4	24.9	6.7	18100.	0.981	
DRY CLEANING	1.9	1.3	0.48	0.48	1.9	0.53	1400.	0.970	
PLYWOOD-VEENER	364.	304.	152.	152.	364.	160.	204000.	0.965	
DIRECT FIRING OF HEAT	10.3	8.1	4.0	4.0	10.3	4.1	6200.	0.990	
* BOILERS >250 MM BTU/HR	85.3	64.1	32.1	32.1	85.3	54.9	30300.	0.570	
* BOILERS 10-250 MM BTU/HR	264.	154.	77.2	77.2	264.	77.2	186000.	1.000	
GRAPHIC ARTS - LETTERPRESS	162.	141.	70.3	70.3	162.	70.3	91200.	1.000	
GRAPHIC ARTS - LITHOGRAPHY	108.	66.0	36.3	36.3	108.	37.0	70400.	0.990	
GRAPHIC ARTS - METAL DECORATING	115.	63.0	34.6	38.8	103.	35.4	67200.	0.989	
ACRYLONITRILE	111.	58.9	32.4	37.4	95.9	33.1	62700.	0.988	
FORMALDEHYDE	305.	34.0	18.7	67.8	84.2	18.8	65400.	0.998	
AMMONIA - REGENERATOR & CO ABSORBER	102.	33.6	18.5	22.9	82.6	19.3	63300.	0.987	
ETHYLENE DICHLORIDE	981.	415.	228.	228.	981.	232.	749000.	0.995	
ETHYLENE OXIDE - AIR OXIDATION	339.	20.1	11.0	78.8	47.5	11.3	36100.	0.993	
CARBON BLACK - FURNACE PROCESS	597.	290.	159.	159.	597.	164.	433000.	0.990	
PRINTING INK	558.	436.	240.	240.	558.	240.	318000.	0.999	
AMMONIA - METHANATOR PLANT	34.6	8.5	4.7	11.7	13.9	7.0	6800.	0.750	
CHARCOAL	981.	415.	228.	228.	981.	232.	749000.	0.995	
	225.	148.	81.4	81.4	225.	82.8	142000.	0.990	

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	T E 1985	EMISSIONS			T N 1985	TONS/YEAR T-T S N 1985	1 - E / E N S
				1000 LBS/YEAR T	UE 1985	T S 1985			
GRAPHIC ARTS-GRAVURE	175.	108.	59.2	59.2	59.2	175.	59.3	116000.	0.999
GRAPHIC ARTS FLEXOGRAPHY	153.	97.9	53.9	53.9	53.9	159.	54.9	104000.	0.990
SYNTHETIC RESINS ACRYLIC	255.	9.1	5.0	33.5	33.5	38.2	7.2	31000.	0.933
MALEIC ANHYDRIDE BENZENE OXID.	46.8	16.9	9.3	10.9	10.9	40.0	9.3	30600.	0.999
SYNTHETIC FIBERS NYLON	14.2	4.3	2.4	2.4	2.4	14.2	2.9	11200.	0.950
SYNTHETIC FIBERS ACETATE	1.8	1.4	0.77	0.77	0.77	1.8	0.82	1000.	0.950
SYNTHETIC RESINS ALKYL	0.36	0.31	0.17	0.17	0.17	0.36	0.17	180.	0.990
ASPHALT BLOWING	4.4	3.5	2.1	2.1	2.1	4.4	2.1	2300.	0.990
DEGREASING	1370.	767.	445.	580.	580.	1051.	524.	526000.	0.870
INDUSTRIAL SURFACE COATING	4937.	1899.	1101.	1351.	1351.	4025.	1460.	2560000.	0.877
PETR. - TRANSFER - GAS	103.	47.1	27.4	44.8	44.8	66.1	33.8	32300.	0.837
PETR. - TRANSFER - JETFUEL	17.7	5.6	3.3	4.2	4.2	13.7	9.5	4100.	0.400
PETR. - TRANSFER - AVGAS	4.3	1.4	0.79	1.0	1.0	3.3	2.4	990.	0.389
TEXTILE - HEAT SETTING	7.6	1.0	0.61	2.0	2.0	2.3	1.4	850.	0.513
TEXTILE - CARPET MFG	1.1	0.57	0.33	0.37	0.37	0.95	0.37	530.	0.944
TEXTILE - TEXTURIZING	2.2	0.34	0.20	1.00	1.00	0.43	0.26	170.	0.750
PETR. - TRANSFER - SP. NAP.	0.94	0.68	0.39	0.51	0.51	0.73	0.60	120.	0.378
AUTOMOBILE ASSEMBLY	135.	60.8	36.5	60.8	60.8	80.9	37.9	42900.	0.967
COFFEE ROASTING	0.72	0.72	0.43	0.43	0.43	0.72	0.44	290.	0.995
SMOKED MEAT	0.60	0.51	0.31	0.31	0.31	0.60	0.43	170.	0.571

HYDRSCARIONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985		
LEAD ACID BATTERY PLANTS	0.45	0.21	0.12	0.16	0.34	200.	0.985
BEER	62.5	31.8	19.1	19.1	62.5	43000.	0.990
AUTOBODY INCINERATORS	0.50	0.13	0.080	0.080	0.50	220.	0.540
PATHOLOGICAL INCINERATOR	0.11	0.084	0.051	0.051	0.11	50.0	0.989
* INDUSTRIAL COMMERCIAL INCINERATORS	50.7	17.8	10.9	10.9	50.7	39700.	1.000
* MUNICIPAL INCINERATOR	35.9	24.6	15.0	15.0	35.9	20800.	1.000
* BOILERS - 3-10 MM BTU/HR	212.	139.	87.6	87.6	212.	124000.	1.000
SEC MAGNESIUM	0.029	0.024	0.016	0.016	0.029	10.0	0.999
SEC ZINC SWEAT	0.33	0.23	0.15	0.15	0.33	180.	0.999
* BRICK & RELATED CLAY PRODUCTS	1.3	1.0	0.69	0.69	1.3	620.	1.000
* ORCHARD HEATERS	353.	276.	185.	185.	353.	168000.	1.000
WHISKEY	2.7	1.7	1.2	1.2	2.7	1500.	0.980
PETRLM STRG JET FUEL BRTHNG	213.	62.0	42.8	59.9	114.	0.0	0.000
PETRLM STRG SPC NAP WRKNG	1.7	1.3	0.87	1.1	1.2	0.0	0.000
PETRLM STRG SPC NAP BRTHNG	27.8	12.2	8.4	17.9	12.9	0.0	-0.000
PETR - SERVICE STATIONS	666.	287.	198.	327.	403.	174000.	0.852
PETR. - TANKS - KER - BREATH	22.5	16.5	11.4	15.5	16.5	1600.	0.322
PET REF - VACUUM DIST.	154.	102.	70.4	70.4	154.	83700.	0.999
PET REF - MISC PT SOURCE	1859.	1230.	848.	848.	1859.	505000.	0.500
PETR. - REFUELING	888.	632.	436.	436.	888.	383000.	0.849

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS						T N S 1985	TONS/YEAR T-S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985			
PETRO. - TANKS - DO - BREATH									
PETRLM REFNRY PRS GAS CO	261.	139.	95.6	132.	190.	158.	31700.	0.336	
PETRLM STRG AV GS WRKNG	4.8	3.2	2.2	2.2	4.8	2.2	2600.	1.000	
PETRLM STRG AV GS BRTHNG	8.1	2.6	1.8	2.3	4.5	4.5	0.0	0.000	
WOOD PULPING KRAFT PROCESS	129.	38.1	26.3	36.4	70.4	70.4	0.0	-0.000	
PETRLM STRG CRD OIL WRKNG	88.0	78.1	53.9	53.9	88.0	84.8	3200.	0.096	
PETRLM STRG CRD OIL BRTHNG	323.	181.	125.	148.	225.	225.	0.0	0.000	
PETRLM STRG GASOLINE WRKNG	1280.	674.	465.	585.	842.	842.	0.0	-0.000	
PETRLM STRG GASOLINE BRTHNG	205.	89.0	61.4	100.	72.3	72.3	0.0	0.000	
PETRLM STRG JET FUEL WRKNG	959.	355.	245.	469.	295.	295.	0.0	0.000	
MINERAL WOOL	33.4	10.6	7.3	9.4	18.5	18.5	0.0	0.000	
PETR. - TRANSFER - CRUDE	8.4	7.0	4.9	4.9	8.4	6.4	1900.	0.569	
CORE OVENS	77.7	43.5	30.9	36.5	65.7	54.4	11200.	0.324	
DEEP FAT FRYING	152.	112.	80.9	80.9	152.	87.9	63600.	0.900	
VEGETABLE OIL PRODUCTION	12.6	6.7	4.8	6.0	10.2	4.9	5200.	0.988	
COKE OVENS - BY PRODUCT	145.	114.	81.8	82.1	144.	107.	37400.	0.599	
INTERNAL COMB ENGS DIESEL DUALFUEL	229.	207.	149.	149.	228.	150.	77900.	0.990	
PHTHALIC ANHYDRIDE - O-XYLENE	209.	163.	130.	130.	209.	206.	2500.	0.032	
INTERNAL COMBUSTION ENGS SPKIGN	45.4	14.2	11.3	17.0	30.3	12.4	17800.	0.942	
BOILERS <0.3 MM BTU/HR	873.	467.	373.	373.	873.	373.	499000.	1.000	
	93.2	70.0	56.0	56.0	93.2	56.0	37100.	1.000	

HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS							TONS/YEAR T - T S - N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985			
* ASPHALT BATCHING									
POLYETHYLENE - LOW DENSITY	87.1	58.1	53.4	53.4	87.1	53.4	33600.	1.000	
246.		9.0	8.4	50.1	41.3	10.4	30800.	0.940	
POLYSTYRENE									
24.9		4.3	4.1	11.5	9.0	4.3	4600.	0.971	
SYNTHETIC RESINS ABS-SAN									
2.8		1.1	1.0	1.3	2.2	1.0	1100.	0.987	
SYNTHETIC RESINS PHENOLIC									
6.5		2.5	2.4	3.1	5.0	2.4	2500.	0.987	
SYNTHETIC RESINS UREA-MELANINE									
4.5		1.7	1.6	2.1	3.4	1.6	1800.	0.987	
POLYPROPYLENE									
1.8		0.37	0.36	0.42	1.5	0.36	1100.	0.994	
STYRENE - BUTADIENE RUBBER									
4.5		3.7	3.6	3.6	4.5	4.3	240.	0.262	
POLYVINYL CHLORIDE									
40.5		10.8	10.8	19.1	22.9	10.9	11900.	0.991	
POLYETHYLENE - HIGH DENSITY									
238.		7.0	7.0	47.0	35.2	8.9	26300.	0.932	

P_C (Compound)

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCON- T		GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION	
			ALLOWABLE E S	EMISSION E N	E U	U	P B	P C	UNITS/YR	A 1975	B 1985
POLYETHYLENE - HIGH DENSITY											
1.00 LB/TON			7.400	0.500	50.000		0.000S	0.176C	E6 TONS	1.9	0.0
POLYETHYLENE - LOW DENSITY											
0.88 LB/TON			4.200	0.250	25.000		0.006S	0.165C	E6 TONS	4.8	0.29
SYNTHETIC RESINS ACRYLIC											
0.87 LB/TON			36.000	2.400	240.000		0.045S	0.154C	E6 TONS	0.58	0.26
POLYPROPYLENE											
0.78 LB/TON			0.590	0.003	0.700		0.003S	0.150C	E6 TONS	1.6	0.048
SYNTHETIC FIBERS NYLON											
0.72 LB/TON			7.000	0.350	7.000		0.045S	0.127C	E6 TONS	1.7	0.76
INDUSTRIAL COMMERCIAL INCINERATORS											
0.38 LB/TON			2.880	0.000	2.880		0.039S	0.110C	E6 TONS	32.6	12.7
ACRYLONITRILE											
0.90 LB/TON			91.000	0.165	330.000		0.045S	0.095C	E6 TONS	0.83	0.37
PETRLM STRG AV GS WRKNG											
EXIST= 0.85 LB/BARREL			0.090	0.055	0.116		0.031S	0.094C	E6 BBL	67.0	20.8
NEW= 0.85			0.055								
PETRLM STRG AV GS BRTHNG											
EXIST= 1.00 LB/BARREL			2.060	1.350	2.850		0.031S	0.094C	E6 BBL	37.0	11.5
NEW= 1.00			1.350								
PETRLM STRG JET FUEL WRKNG											
EXIST= 0.85 LB/BARREL			0.090	0.054	0.116		0.031S	0.094C	E6 BBL	276.	85.6
NEW= 0.85			0.054								
PETRLM STRG JET FUEL BRTHNG											
EXIST= 1.00 LB/BARREL			1.000	0.650	1.400		0.031S	0.094C	E6 BBL	124.	38.4
NEW= 1.00			0.650								
FORMALDEHYDE											
0.72 LB/TON			22.200	0.280	27.500		0.045S	0.094C	E6 TONS	4.2	1.9
PETR. - TRANSFER - AVGAS											
0.85 LB/BARREL			0.090	0.055	0.116		0.042S	0.094C	E6 BBL	35.6	14.8
PETR. - TRANSFER - JET FUEL											
0.25 LB/BARREL			0.090	0.054	0.116		0.042S	0.094C	E6 BBL	146.	60.9
AMMONIA - REGENERATOR & CO ABSORBER											
0.83 LB/TON			90.000	0.450	90.000		0.045S	0.090C	E6 TONS	11.1	5.0
PALEIC ANHYDRIDE BENZENE OXID.											
1.00 LB/TON			147.000	0.172	172.000		0.045S	0.090C	E6 TONS	0.23	0.10
ETHYLENE DICHLORIDE											
0.62 LB/TON			19.600	0.140	140.000		0.045S	0.090C	E6 TONS	3.3	1.5
AMMONIA - METHANATOR PLANT											
0.83 LB/TON			90.000	0.450	90.000		0.045S	0.090C	E6 TONS	11.1	5.0
TEXTILE - HEAT SETTING											
G.86 LB/TON			3.054	1.486	10.180		0.042S	0.081C	E6 TONS	0.79	0.33

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES			CAPACITY/PRODUCTION			C
			F	S	N	E	U	P	A	B	C	
PHTHALIC ANHYDRIDE - 9-XYLENE	0.78	LB/TON	86.600	5.000	0.020S	0.079C	0.084	0.42	0.084	0.084	0.48	
INDUSTRIAL SURFACE COATING	0.82	LB/TON	5.340	0.655	0.042S	0.078C	367.	867.	364.	364.	971.	
POLYVINYL CHLORIDE	0.82	LB/TON	9.600	0.085	0.000S	0.078C	2.7	0.0055	0.0055	0.0055	3.1	
ETHYLENE OXIDE - AIR OXIDATION	0.87	LB/TON	392.000	3.920	0.045S	0.075C	1.7	0.76	0.76	0.76	1.8	
POLYSTYRENE	0.88	LB/TON	4.200	0.120	0.005S	0.075C	2.3	0.12	0.12	0.12	2.5	
SYNTHETIC RESINS UREA-MELANINE	0.80	LB/TON	5.760	0.075	0.005S	0.073C	0.74	0.037	0.037	0.037	0.76	
SYNTHETIC RESINS ABS-SAN	0.80	LB/TON	5.760	0.075	0.005S	0.072C	0.47	0.023	0.023	0.023	0.47	
SYNTHETIC RESINS PHENOLIC	0.80	LB/TON	5.760	0.075	0.005S	0.070C	1.1	0.055	0.055	0.055	1.1	
BEER	0.81	LB/TON	10.900	0.109	0.040S	0.070C	7.2	2.9	2.9	2.9	7.0	
BOILERS >250 MM BTU/HR	0.58	LB/E6 BTU	0.019	0.000	0.050S	0.055C	28011.	19836.	19836.	19836.		
TEXTILE - CARPET MFG	0.86	LB/TON	0.720	0.040	0.042S	0.053C	1.8	0.76	0.76	0.76	1.2	
GRAPHIC ARTS-GRAVURE	0.80	LB/TON	2300.000	2.300	0.045S	0.050C	0.12	0.053	0.053	0.053	0.074	
GRAPHIC ARTS FLEXOGRAPHY	0.80	LB/TON	4900.000	4.900	0.045S	0.050C	0.051	0.023	0.023	0.023	0.032	
GRAPHIC ARTS - LETTERPRESS	0.80	LB/TON	1500.000	1.500	0.045S	0.050C	0.11	0.049	0.049	0.049	0.069	
PRINTING INK	0.83	LB/TON	48.000	12.000	0.045S	0.050C	0.43	0.19	0.19	0.19	0.27	
LEAD ACID BATTERY PLANTS	0.76	LB/PRD UNT	0.007	0.000	0.040S	0.050C	80.0	32.0	32.0	32.0	50.3	
GRAPHIC ARTS - LITHOGRAPHY	0.80	LB/TON	2500.000	2.500	0.045S	0.050C	0.063	0.028	0.028	0.028	0.040	
GRAPHIC ARTS - METAL DECORATING	0.80	LB/TON	3200.000	3.200	0.045S	0.050C	0.046	0.021	0.021	0.021	0.029	
CHARCOAL	0.85	LB/TON	438.000	4.400	0.045S	0.043C	0.79	0.36	0.36	0.36	0.42	
DEEP FAT FRYING	0.81	LB/TON	6.240	0.074	0.028S	0.043C	2.6	0.74	0.74	0.74	1.4	
BOILERS <3-10 MM BTU/HR	0.25	LB/E6 BTU	0.042	0.000	0.037S	0.043C	26471.	9794.	9794.	9794.	13857.	

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCENT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E	N		P	B	C	A 1975	B 1985	
PETRLM REFRY PRS GAS CO 0.85 LB/E6 BTU			33.000	0.000	33.000	0.031S	0.031S	0.042C	0.23	0.070	0.12
PET REF - MISC PT SOURCE 0.85 LB/TON			0.586	0.293	0.586	0.031S	0.031S	0.042C	4937.	1530.	2527.
PETR. - TRANSFER - CRUDE 0.85 LB/BARREL			0.071	0.048	0.084	0.029S	0.029S	0.042C	1440.	418.	737.
PET REF - VACUUM DIST. 0.85 LB/TON			0.130	0.000	0.130	0.031S	0.031S	0.042C	1846.	572.	945.
PETRLM STRG CRD 91L WRKNG EXIST* 0.85 LB/BARREL			0.071	0.048	0.084	0.031S	0.031S	0.042C	6000.	1860.	3054.
NEW* 0.85			0.048								
PETRLM STRG CRD 81L BRTHNG EXIST* 1.00 LB/BARREL			2.290	1.560	2.880	0.031S	0.031S	0.042C	589.	183.	300.
NEW* 1.00			1.560								
FIBERGLASS MANUF - W89L 0.70 LB/TON			3.390	0.102	3.390	0.063S	0.063S	0.042C	1.1	0.68	0.55
SEC ZINC SWEAT 0.82 LB/TON			2.810	0.003	2.810	0.035S	0.035S	0.039C	0.20	0.069	0.091
PETRLM STRG GASOLINE WRKNG EXIST* 0.85 LB/BARREL			0.071	0.012	0.116	0.031S	0.031S	0.035C	2950.	915.	1211.
NEW* 0.85			0.012								
PETRLM STRG GASOLINE BRTHNG EXIST* 1.00 LB/BARREL			1.490	0.290	2.850	0.031S	0.031S	0.035C	477.	148.	196.
NEW* 1.00			0.290								
PETR. - REFUELING 0.85 LB/BARREL			0.504	0.076	0.504	0.031S	0.031S	0.035C	2950.	915.	1195.
PETR - SERVICE STATIONS 0.85 LB/BARREL			0.229	0.0J4	0.378	0.031S	0.031S	0.035C	2950.	915.	1195.
PETR. - TRANSFER - GAS 0.85 LB/BARREL			0.071	0.012	0.116	0.042S	0.042S	0.035C	1560.	651.	632.
DEGREASING 0.82 LB/TON			1.150	0.150	1.500	0.042S	0.042S	0.032C	1626.	683.	602.
PETR8. - TANKS - DR - BREATH 1.00 LB/BARREL			0.431	0.286	0.593	0.031S	0.031S	0.032C	643.	199.	238.
AUTOMOBILE ASSEMBLY 0.91 LB/PRD UNIT			12.500	0.420	21.000	0.040S	0.040S	0.029C	10.6	4.2	3.5
BOILERS <3 MM BTU/HR 0.30 LB/E6 BTU			0.019	0.000	0.019	0.020S	0.020S	0.029C	24572.	4914.	8131.
SYNTHETIC FIBERS ACETATE 0.93 LB/TON			7.000	0.350	7.000	0.045S	0.045S	0.028C	0.43	0.19	0.14
PAINT 0.85 LB/TON			30.000	0.300	30.000	0.067S	0.067S	0.026C	4.9	3.3	1.5

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	UNCONT E U	GROWTH RATES DECIMAL/YR P B	C	UNITS/YR	CAPACITY/PRODUCTION		
								A 1975	B 1985	C 1985
VARNISH										
PATHOLOGICAL INCINERATOR	0.85	LB/TON	34.900	0.679	0.067S	0.026C	E6 TONS	1.3	0.86	0.38
CARBON BLACK - FURNACE PROCESS	0.34	LB/TON	3.800	0.040	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
PLYWOOD-VENEER	0.77	LB/TON	570.000	0.570	0.045S	0.025C	E6 TONS	2.0	0.89	0.56
TEXTILE - TEXTURIZING	0.95	LB/TON	0.001	0.000	0.050S	0.025C	E6 TONS	22600.	11300.	6330.
STYRENE - BUTADIENE RUBBER	0.86	LB/TON	0.920	0.230	0.042S	0.023C	E6 TONS	0.87	0.36	0.22
DRY CLEANING	0.75	LB/TON	4.200	3.100	0.003S	0.020C	E6 TONS	2.3	0.070	0.51
SPOKED WHEEL	1.00	LB/TON	258.000	9.000	0.050S	0.018C	E6 TONS	2.4	1.2	0.46
SEC MAGNESIUM	0.81	LB/TON	0.350	0.150	0.040S	0.017C	E6 TONS	3.6	1.4	0.66
SYNTHETIC RESINS ALKYL	0.82	LB/TON	3.390	0.003	0.035S	0.016C	E6 TONS	0.017	0.0061	0.0030
BRILERS 10-250 MM BTU/HR	0.68	LB/TON	1.710	0.017	0.045S	0.015C	E6 TONS	0.53	0.24	0.085
WOOD PULPING KRAFT PROCESS	0.32	LB/E6 BTU	0.045	0.000	0.050S	0.014C	E12 BTU	19534.	2914.	
PETR. - TRANSFER - SP. NAP.	0.98	LB/TON	4.690	4.240	0.031S	0.012C	E6 TONS	34.0	10.5	4.3
PETROLEUM STRG SPC NAP WRKNG	0.85	LB/BARREL	0.090	0.056	0.042S	0.007C	E6 BBL	17.7	7.4	1.3
EXIST. NEW	0.85	LB/BARREL	0.090	0.056	0.031S	0.007C	E6 BBL	33.0	10.2	2.4
PETROLEUM STRG SPC NAP BRTHNG	1.00	LB/BARREL	1.340	1.300	0.031S	0.007C	E6 BBL	18.2	5.6	1.3
EXIST. NEW	1.00	LB/BARREL	1.300							

HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS			T N 1985	TONS/YEAR T-S-N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985			
POLYETHYLENE - HIGH DENSITY 238.		7.0	7.0	47.0	35.2	8.9	26300.	0.932
POLYETHYLENE - LOW DENSITY 246.		9.0	8.4	50.1	41.3	10.4	30800.	0.940
SYNTHETIC RESINS ACRYLIC 255.		9.1	5.0	33.5	38.2	7.2	31000.	0.933
POLYPROPYLENE 1.8		0.37	0.36	0.42	1.5	0.36	1100.	0.994
SYNTHETIC FIBERS NYLON 14.2		4.3	2.4	2.4	14.2	2.9	11200.	0.950
* INDUSTRIAL COMMERCIAL INCINERATORS 50.7		17.8	10.9	10.9	50.7	10.9	39700.	1.000
ACRYLONITRILE 305.		34.0	18.7	67.8	84.2	18.8	65400.	0.998
PETRLM STRG AV GS WKNJ 8.1		2.6	1.8	2.3	4.5	4.5	0.0	0.000
PETRLM STRG AV GS BRTHNG 129.		38.1	26.3	36.4	70.4	70.4	0.0	-0.000
PETRLM STRG JET FUEL WRKNG 33.4		10.6	7.3	9.4	18.5	18.5	0.0	0.000
PETRLM STRG JET FUEL BRTHNG 213.		62.0	42.8	59.9	114.	114.	0.0	0.000
FORMALDEHYDE 102.		33.6	18.5	22.9	82.6	19.3	63300.	0.987
PETR. - TRANSFER - AVGAS 4.3		1.4	0.79	1.0	3.3	2.4	990.	0.339
PETR. - TRANSFER - JETFUEL 17.7		5.6	3.3	4.2	13.7	9.5	4100.	0.400
AMMONIA - REGENERATOR & CO ABSORBER 981. 415.		16.9	228.	228.	981.	232.	749000.	0.995
MALEIC ANHYDRIDE BENZENE OXID. 46.8		20.1	11.0	10.9	40.0	9.3	30600.	0.999
ETHYLENE DICHLORIDE 339.		415.	228.	228.	981.	232.	749000.	0.993
AMMONIA - METHANATOR PLANT 981.		1.0	0.61	2.0	2.3	1.4	850.	0.995
TEXTILE - HEAT SETTING 7.6		14.2	11.3	17.0	30.3	12.4	17800.	0.513
PTHALIC ANHYDRIDE - O-XYLENE 45.4								0.942

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				T N 1985	T S N 1995	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985			
INDUSTRIAL SURFACE COATING 4937.		1899.	1101.	1351.	4025.	1460.	2560000.	0.877	
POLYVINYL CHLORIDE		10.8	10.8	19.1	22.9	10.9	11900.	0.991	
ETHYLENE OXIDE - AIR OXIDATION 597.		290.	159.	159.	597.	164.	433000.	0.990	
POLYSTYRENE		4.3	4.1	11.5	9.0	4.3	4600.	0.971	
SYNTHETIC RESINS UREA-MELANINE 4.5		1.7	1.6	2.1	3.4	1.6	1800.	0.987	
SYNTHETIC RESINS ABS-SAN 2.8		1.1	1.0	1.3	2.2	1.0	1100.	0.987	
SYNTHETIC RESINS PHENOLIC 6.5		2.5	2.4	3.1	5.0	2.4	2500.	0.987	
BEER		31.8	19.1	19.1	62.5	19.5	43000.	0.990	
* BOILERS >250 MM BTU/HR 264.		154.	77.2	77.2	264.	77.2	186000.	1.000	
TEXTILE - CARPET MFG		0.57	0.33	0.37	0.95	0.37	580.	0.944	
GRAPHIC ARTS-GRAVURE	1.1	108.	59.2	59.2	175.	59.3	116000.	0.999	
GRAPHIC ARTS FLEXOGRAPHY 175.		97.9	53.9	53.9	159.	54.9	104000.	0.990	
GRAPHIC ARTS - LETTERPRESS 159.		66.0	36.3	36.3	108.	37.0	70400.	0.990	
PRINTING INK		8.5	4.7	11.7	13.9	7.0	6800.	0.750	
LEAD ACID BATTERY PLANTS		0.21	0.12	0.16	0.34	0.13	200.	0.985	
GRAPHIC ARTS - LITHOGRAPHY 0.45		63.0	34.6	38.8	103.	35.4	67200.	0.989	
GRAPHIC ARTS - METAL DECORATING 115.		58.9	32.4	37.4	95.9	33.1	62700.	0.988	
CHARCOAL		148.	81.4	81.4	225.	82.8	142000.	0.990	
DEEP FAT FRYING		6.7	4.8	6.0	10.2	4.9	5200.	0.998	
* BOILERS .3-10 MM BTU/HR 212.		139.	87.6	87.6	212.	87.6	124000.	1.000	

HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - T S N 1985	1 - E / E N S
	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
PETRLM REFRNRY PRS GAS C8 4.8	3.2	2.2	2.2	4.8	2.2	2600.	1.000
PET REF - MISC PT SOURCE 1859.	1230.	848.	848.	1859.	1354.	505000.	0.500
PETR. - TRANSFER - CRUDE 77.7	43.5	30.9	36.5	65.7	54.4	11200.	0.324
PET REF - VACUUM DIST. 154.	102.	70.4	70.4	154.	70.4	83700.	0.999
PETRLM STRG CRD OIL WRKNG 323.	181.	125.	148.	225.	225.	0.0	0.000
PETRLM STRG CRD OIL BRTHNG 1280.	674.	465.	585.	842.	842.	0.0	-0.000
FIBERGLASS MANUF - W80L 1.9	1.3	0.48	0.48	1.9	0.53	1400.	0.970
SEC ZINC SWEAT 0.33	0.23	0.15	0.15	0.33	0.15	180.	0.999
PETRLM STRG GASOLINE WRKNG 205.	89.0	61.4	100.	72.3	72.3	0.0	0.000
PETRLM STRG GASOLINE BRTHNG 959.	355.	245.	469.	295.	295.	0.0	0.000
PETR. - REFUELING 888.	632.	436.	436.	888.	504.	383000.	0.849
PETR - SERVICE STATIONS 666.	287.	198.	327.	403.	229.	174000.	0.852
PETR. - TRANSFER - GAS 108.	47.1	27.4	44.8	66.1	33.8	32300.	0.837
DEGREASING 1370.	767.	445.	580.	1051.	524.	526000.	0.870
PETRO. - TANKS - D8 - BREATH 261.	139.	95.6	132.	190.	158.	31700.	0.336
AUTOMOBILE ASSEMBLY 135.	60.8	36.5	60.8	80.9	37.9	42900.	0.967
* BOILERS < 3 MM BTU/HR 93.2	70.0	56.0	56.0	93.2	56.0	37100.	1.000
SYNTHETIC FIBERS ACETATE 1.8	1.4	0.77	0.77	1.8	0.82	1000.	0.950
PAINT 81.5	62.9	20.9	20.9	81.5	21.5	59900.	0.990
VARNISH 48.4	19.2	6.4	12.4	24.9	6.7	18100.	0.981

* BOILERS < 3 MM BTU/HR
93.2

SOURCE

543

P_C (Simple)

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION ALLOWABLE E S	EMISSION RATES UNCENT E U	GROWTH RATES DECIMAL/YR P	C	UNITS/YR	CAPACITY/PRODUCTION		
								A	B	C
								1975	1985	1985
AUTOBODY INCINERATORS										
0.90 LB/PRD UNIT			1.000	0.460	0.039S	0.280S	E6 PU	0.29	0.11	0.82
INTERNAL COMBUSTION ENGS SPKIGN										
0.58 LB/TON			56.000	0.000	0.020S	0.087S	E6 TONS	28.7	5.7	25.0
WHISKEY										
0.95 LB/PRD UNIT			2.760	0.055	0.032S	0.060S	E6 PU	1.3	0.42	0.78
ASPHALT BATCHING										
0.47 LB/TON			0.167	0.000	0.008S	0.050S	E6 TONS	1480.	118.	740.
MUNICIPAL INCINERATOR										
0.56 LB/TON			2.700	0.000	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
CORE OVENS										
0.93 LB/TON			10.500	1.050	0.028S	0.035S	E6 TONS	23.0	6.4	8.0
DIRECT FIRING OF MEAT										
0.62 LB/TON			6136.000	2636.000	0.050S	0.033S	E6 TONS	0.034	0.017	0.011
INTERNAL COMB ENGS DIESEL										
0.58 LB/TON			31.300	30.300	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
ORCHARD HEATERS										
1.00 LB/TON			9.200	0.000	0.033S	0.028S	E6 TONS	60.0	19.8	16.8
BRICK & RELATED										
CLAY PRODUCTS										
0.80 LB/TON			0.073	0.000	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
VEGETABLE OIL PRODUCTION										
0.92 LB/TON			37.900	15.200	0.028S	0.027S	E6 TONS	6.5	1.8	1.8
ASPHALT BLOWING										
0.90 LB/TON			2.500	0.025	0.042S	0.025S	E6 TONS	3.1	1.3	0.79
MINERAL WOOL										
0.82 LB/TON			2.020	0.870	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
COKE OVENS - BY PRODUCT										
0.93 LB/TON			5.900	0.060	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
COFFEE ROASTING										
0.85 LB/TON			1.100	0.005	0.040S	0.000S	E6 TONS	1.5	0.62	0.0
PETR. - TANKS - KER - BREAK										
1.00 LB/BARREL			0.435	0.295	0.031S	0.000S	E6 BBL	75.8	23.5	0.0

HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985		
AUTOBODY INCINERATORS	0.50	0.13	0.080	0.080	0.50	220.	0.540
* INTERNAL COMBUSTION ENGS SPKIGN	873.	467.	373.	373.	873.	499000.	1.000
WHISKEY	2.7	1.7	1.2	1.2	2.7	1500.	0.980
* ASPHALT BATCHING	87.1	58.1	53.4	53.4	87.1	33600.	1.000
* MUNICIPAL INCINERATOR	35.9	24.6	15.0	15.0	35.9	20800.	1.000
CORE OVENS	152.	112.	80.9	80.9	152.	63600.	0.900
DIRECT FIRING OF HEAT	85.3	64.1	32.1	32.1	85.3	30300.	0.570
INTERNAL COMB ENGS DIESEL DUALFUEL	209.	163.	130.	130.	209.	2500.	0.032
* ORCHARD HEATERS	353.	276.	185.	185.	353.	168000.	1.000
* BRICK & RELATED CLAY PRODUCTS	1.3	1.0	0.69	0.69	1.3	620.	1.000
VEGETABLE OIL PRODUCTION	145.	114.	81.8	82.1	144.	37400.	0.599
ASPHALT BLOWING	4.4	3.5	2.1	2.1	4.4	2300.	0.990
MINERAL WOOL	8.4	7.0	4.9	4.9	8.4	1900.	0.569
COKE OVENS - BY PRODUCT	228.	207.	149.	149.	228.	77900.	0.990
COFFEE ROASTING	0.72	0.72	0.43	0.43	0.72	280.	0.995
PETR. - TANKS - KER - BREATH	22.5	16.5	11.4	15.5	16.5	1600.	0.322

K

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES			CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N	UNCENT E U	DECIMAL/YR P B	P C	UNITS/YR	A 1975	B 1985	C 1985
DRY CLEANING	1.00	LB/TON	258.000	9.000	258.000	0.050S	0.018C	E6 TONS	2.4	1.2	0.46
PETRO. - TANKS - D6 - BREATH	1.00	LB/BARREL	0.431	0.286	0.593	0.031S	0.032C	E6 BBL	643.	199.	238.
POLYETHYLENE - HIGH DENSITY	1.00	LB/TON	7.400	0.500	50.000	0.000S	0.176C	E6 TONS	1.9	0.0	7.6
PETRO. - TANKS - KER - BREATH	1.00	LB/BARREL	0.435	0.295	0.593	0.031S	0.000S	E6 BBL	75.8	23.5	0.0
PETRLM STRG AV GS BRTHNG	1.00	LB/BARREL	2.060	1.350	2.850	0.031S	0.094C	E6 BBL	37.0	11.5	53.9
EXIST. NEW.	1.00		1.350								
PETRLM STRG CRD OIL BRTHNG	1.00	LB/BARREL	2.290	1.560	2.880	0.031S	0.042C	E6 BBL	589.	183.	300.
EXIST. NEW.	1.00		1.560								
PETRLM STRG GASOLINE BRTHNG	1.00	LB/BARREL	1.490	0.290	2.850	0.031S	0.035C	E6 BBL	477.	148.	196.
EXIST. NEW.	1.00		0.290								
PETRLM STRG JET FUEL BRTHNG	1.00	LB/BARREL	1.000	0.650	1.400	0.031S	0.094C	E6 BBL	124.	38.4	181.
EXIST. NEW.	1.00		0.650								
PETRLM STRG SPC NAP BRTHNG	1.00	LB/BARREL	1.340	1.300	2.850	0.031S	0.007C	E6 BBL	18.2	5.6	1.3
EXIST. NEW.	1.00		1.300								
ORCHARD HEATERS	1.00	LB/TON	9.200	0.000	9.200	0.033S	0.028S	E6 TONS	60.0	19.8	16.8
PALEIC ANHYDRIDE BENZENE OXID.	1.00	LB/TON	147.000	0.172	172.000	0.045S	0.090C	E6 TONS	0.23	0.10	0.31
WOOD PULPING KRAFT PROCESS	0.98	LB/TON	4.690	4.240	4.690	0.031S	0.012C	E6 TONS	34.0	10.5	4.3
PLYWOOD-VENEER	0.95	LB/TON	0.001	0.000	0.001	0.050S	0.025C	E6 TONS	22600.	11300.	6330.
WHISKEY	0.95	LB/PRD UNT	2.760	0.055	2.760	0.032S	0.060S	E6 PU	1.3	0.42	0.78
CORE OVENS	0.93	LB/TON	10.500	1.050	10.500	0.028S	0.035S	E6 TONS	23.0	6.4	8.0
COKE OVENS - BY PRODUCT	0.93	LB/TON	5.900	0.060	5.900	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
SYNTHETIC FIBERS ACETATE	0.93	LB/TON	7.000	0.350	7.000	0.045S	0.028C	E6 TONS	0.43	0.19	0.14
VEGETABLE OIL PRODUCTION	0.92	LB/TON	37.900	15.200	38.000	0.028S	0.027S	E6 TONS	6.5	1.8	1.8
AUTOMOBILE ASSEMBLY	0.91	LB/PRD UNT	12.600	0.420	21.000	0.040S	0.029C	E6 PU	10.6	4.2	3.5

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N	UNCONT E U	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
ACRYLONITRILE	0.90	LB/TON	91.000	0.165	330.000	0.045S	0.095C	E6 TONS	0.83	0.37	1.2
AUTOBODY INCINERATORS	0.90	LB/PRD UNIT	1.000	0.460	1.000	0.039S	0.280S	E6 PU	0.29	0.11	0.82
ASPHALT BLOWING	0.90	LB/TON	2.500	0.025	2.500	0.042S	0.025S	E6 TONS	3.1	1.3	0.79
POLYSTYRENE	0.88	LB/TON	4.200	0.120	11.700	0.005S	0.075C	E6 TONS	2.3	0.12	2.5
POLYETHYLENE - LOW DENSITY	0.88	LB/TON	4.200	0.250	25.000	0.006S	0.165C	E6 TONS	4.8	0.29	17.5
ETHYLENE OXIDE - AIR OXIDATION	0.87	LB/TON	392.000	3.920	392.000	0.045S	0.075C	E6 TONS	1.7	0.76	1.8
SYNTHETIC RESINS ACRYLIC	0.87	LB/TON	36.000	2.400	240.000	0.045S	0.154C	E6 TONS	0.58	0.26	1.9
TEXTILE - TEXTURIZING	0.86	LB/TON	0.920	0.230	4.600	0.042S	0.023C	E6 TONS	0.87	0.36	0.22
TEXTILE - CARPET MFG	0.86	LB/TON	0.720	0.040	0.800	0.042S	0.053C	E6 TONS	1.8	0.76	1.2
TEXTILE - HEAT SETTING	0.86	LB/TON	3.054	1.486	10.180	0.042S	0.081C	E6 TONS	0.79	0.33	0.93
PETR - SERVICE STATIONS	0.85	LB/BARREL	0.229	0.034	0.378	0.031S	0.035C	E6 BBL	2950.	915.	1195.
VARNISH	0.85	LB/TON	34.900	0.679	67.900	0.067S	0.026C	E6 TONS	1.3	0.86	0.38
PETR. - TRANSFER - SP. NAP.	0.85	LB/BARREL	0.090	0.056	0.116	0.042S	0.007C	E6 BBL	17.7	7.4	1.3
PETRLM STRG AV GS WRKNG	0.85	LB/BARREL	0.090	0.055	0.116	0.031S	0.094C	E6 BBL	67.0	20.8	97.5
EXIST- NEW	0.85	LB/BARREL	0.055								
PETR. - TRANSFER - CRUDE	0.85	LB/BARREL	0.071	0.048	0.084	0.029S	0.042C	E6 BBL	1440.	418.	737.
PETRLM STRG CRD 91L WRKNG	0.85	LB/BARREL	0.071	0.048	0.084	0.031S	0.042C	E6 BBL	6000.	1860.	3054.
EXIST- NEW	0.85	LB/BARREL	0.048								
PAINT	0.85	LB/TON	30.000	0.300	30.000	0.067S	0.026C	E6 TONS	4.9	3.3	1.5
PETRLM STRG GASOLINE WRKNG	0.85	LB/BARREL	0.071	0.012	0.116	0.031S	0.035C	E6 BBL	2950.	915.	1211.
EXIST- NEW	0.85	LB/BARREL	0.012								
CHARCOAL	0.85	LB/TON	438.000	4.400	438.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42
PETRLM STRG JET FUEL WRKNG	0.85	LB/BARREL	0.090	0.054	0.116	0.031S	0.094C	E6 BBL	276.	85.6	402.
EXIST- NEW	0.85	LB/BARREL	0.054								

HYDROCARBONS

SUMMARY 3F INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	I	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
				ALLOWABLE E S	EMISSION E N	UNCONT E U	P	B	A	B	C
								UNITS/YR	1975	1985	1985
PETR. - TRANSFER - JETFUEL											
PETRLM STRG SPC NAP WRKNG	0.85		LB/BARREL	0.090	0.054	0.116	0.042S	0.094C	146.	60.9	213.
EXIST-	0.85		LB/BARREL	0.090	0.056	0.116	0.031S	0.007C	33.0	10.2	2.4
NEW-	0.85		LB/BARREL	0.056							
PETRLM REFNRY PRS GAS C8											
PET REF - VACUUM DIST.	0.85		LB/E6 BTU	33.000	0.000	33.000	0.031S	0.042C	0.23	0.070	0.12
	0.85		LB/T8N	0.130	0.000	0.130	0.031S	0.042C	1846.	572.	945.
PETR. - TRANSFER - GAS	0.85		LB/BARREL	0.071	0.012	0.116	0.042S	0.035C	1560.	651.	632.
PETR. - TRANSFER - AVGAS	0.85		LB/BARREL	0.090	0.055	0.116	0.042S	0.094C	35.6	14.8	51.8
PETR. - REFUELING	0.85		LB/BARREL	0.504	0.076	0.504	0.031S	0.035C	2950.	915.	1195.
PET REF - MISC PT SOURCE	0.85		LB/T8N	0.586	0.293	0.586	0.031S	0.042C	4937.	1530.	2527.
COFFEE ROASTING	0.85		LB/T8N	1.100	0.005	1.100	0.040S	0.000S	1.5	0.62	0.0
PRINTING INK	0.83		LB/T8N	48.000	12.000	120.000	0.045S	0.050C	0.43	0.19	0.27
AMMONIA - REGENERATOR & CO ABSORBER	0.83		LB/T8N	90.000	0.450	90.000	0.045S	0.090C	11.1	5.0	15.2
AMMONIA - METHANATOR PLANT	0.83		LB/T8N	90.000	0.450	90.000	0.045S	0.090C	11.1	5.0	15.2
MINERAL W88L	0.82		LB/T8N	2.020	0.370	2.020	0.029S	0.020S	8.4	2.5	1.7
SEC MAGNESIUM	0.82		LB/T8N	3.390	0.003	3.390	0.035S	0.016C	0.017	0.0061	0.0030
DEGREASING	0.82		LB/T8N	1.150	0.150	1.500	0.042S	0.032C	1626.	683.	602.
POLYVINYL CHLORIDE	0.82		LB/T8N	9.600	0.085	17.000	0.000S	0.078C	2.7	0.0055	3.1
SEC ZINC SWEAT	0.82		LB/T8N	2.810	0.003	2.810	0.035S	0.039C	0.20	0.069	0.091
INDUSTRIAL SURFACE COATING	0.82		LB/T8N	5.340	0.655	6.550	0.042S	0.078C	867.	364.	971.
DEEP FAT FRYING	0.81		LB/T8N	6.240	0.078	7.750	0.028S	0.043C	2.6	0.74	1.4
SMOKED MEAT	0.81		LB/T8N	0.350	0.150	0.350	0.040S	0.017C	3.6	1.4	0.66
BEER	0.81		LB/T8N	10.900	0.109	10.900	0.040S	0.070C	7.2	2.9	7.0

HYDROCARBONS
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		
			ALLOWABLE E S	E N	UNCENT E U	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
BRICK & RELATED CLAY PRODUCTS											
GRAPHIC ARTS - LITHOGRAPHY	0.80	LB/TON	0.073	0.000	0.073	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
GRAPHIC ARTS - METAL DECORATING	0.80	LB/TON	2500.000	28.000	2800.000	0.045S	0.050C	E6 TONS	0.063	0.028	0.040
GRAPHIC ARTS - GRAVURE	0.80	LB/TON	3200.000	37.000	3700.000	0.045S	0.050C	E6 TONS	0.046	0.021	0.029
SYNTHETIC RESINS PHENOLIC	0.80	LB/TON	2300.000	2.300	2300.000	0.045S	0.050C	E6 TONS	0.12	0.053	0.074
GRAPHIC ARTS FLEXOGRAPHY	0.80	LB/TON	5.760	0.075	7.500	0.005S	0.070C	E6 TONS	1.1	0.055	1.1
SYNTHETIC RESINS ABS-SAN	0.80	LB/TON	4800.000	48.000	4800.000	0.045S	0.050C	E6 TONS	0.051	0.023	0.032
GRAPHIC ARTS - LETTERPRESS	0.80	LB/TON	5.760	0.075	7.500	0.005S	0.072C	E6 TONS	0.47	0.023	0.47
SYNTHETIC RESINS UREA-MELANINE	0.80	LB/TON	1500.000	15.000	1500.000	0.045S	0.050C	E6 TONS	0.11	0.049	0.069
PHTHALIC ANHYDRIDE - 0-XYLENE	0.78	LB/TON	86.600	5.000	130.000	0.020S	0.073C	E6 TONS	0.74	0.037	0.76
POLYPROPYLENE	0.78	LB/TON	0.590	0.003	0.700	0.003S	0.079C	E6 TONS	0.42	0.084	0.48
CARBON BLACK - FURNACE PROCESS	0.77	LB/TON	570.000	0.570	570.000	0.045S	0.150C	E6 TONS	1.6	0.048	4.9
LEAD ACID BATTERY PLANTS	0.76	LB/PRD UNIT	0.007	0.000	0.009	0.040S	0.025C	E6 PU	2.0	0.89	0.56
STYRENE - BUTADIENE RUBBER	0.75	LB/TON	4.200	3.100	4.200	0.003S	0.050C	E6 TONS	80.0	32.0	50.3
SYNTHETIC FIBERS NYLON	0.72	LB/TON	7.000	0.350	7.000	0.045S	0.020C	E6 TONS	2.3	0.070	0.51
FORMALDEHYDE	0.72	LB/TON	22.200	0.280	27.500	0.045S	0.127C	E6 TONS	1.7	0.76	3.9
FIBERGLASS MANUF - WOOD	0.70	LB/TON	3.390	0.102	3.390	0.063S	0.094C	E6 TONS	4.2	1.9	6.1
SYNTHETIC RESINS ALKYL	0.68	LB/TON	1.710	0.017	1.7.0	0.045S	0.042C	E6 TONS	1.1	0.68	0.55
ETHYLENE DICHLORIDE	0.62	LB/TON	19.600	0.140	140.000	0.045S	0.015C	E6 TONS	0.53	0.24	0.085
DIRECT FIRING OF HEAT	0.62	LB/TON	6136.000	2636.000	6136.000	0.050S	0.090C	E6 TONS	3.3	1.5	4.5
INTERNAL COMBUSTION ENGS	0.58	LB/TON	56.000	0.000	56.000	0.020S	0.033S	E6 TONS	0.034	0.017	0.011
							0.087S	E6 TONS	28.7	5.7	25.0

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES DECIMAL/YR		UNITS/YR	INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E S	E N	P B	P C		A 1975	B 1985	C 1985
INTERNAL COMB ENGS DIESEL										
0.58		LB/TON	31.300	30.300	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
BOILERS >250 MM BTU/HR										
0.58		LB/E6 BTU	0.019	0.000	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
MUNICIPAL INCINERATOR										
0.56		LB/TON	2.700	0.000	0.039S	0.046S	E6 TONS	32.5	12.7	14.9
ASPHALT BATCHING										
0.47		LB/TON	0.167	0.000	0.008S	0.050S	E6 TONS	1480.	118.	740.
INDUSTRIAL COMMERCIAL INCINERATORS										
0.33		LB/TON	2.880	0.000	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
PATHOLOGICAL INCINERATOR										
0.34		LB/TON	3.300	0.040	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
BOILERS 10-250 MM BTU/HR										
0.32		LB/E6 BTU	0.045	0.000	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
BOILERS <.3 MM BTU/HR										
0.30		LB/E6 BTU	0.019	0.000	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
BOILERS .3-10 MM BTU/HR										
0.25		LB/E6 BTU	0.042	0.000	0.037S	0.043C	E12 BTU	26471.	9794.	13857.

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS			T N 1985	TNS/YEAR T - T S N 1985	1 - E / E N S
			T E 1985	1000 TNS/YEAR T UE 1985	T S 1985			
DRY CLEANING	364.	304.	152.	152.	364.	160.	204000.	0.965
PETRO. - TANKS - DG - BREATH	261.	139.	95.6	132.	190.	158.	31700.	0.336
POLYETHYLENE - HIGH DENSITY	238.	7.0	7.0	47.0	35.2	8.9	26300.	0.932
PETR. - TANKS - KER - BREATH	22.5	16.5	11.4	15.5	16.5	14.8	1600.	0.322
PETRLM STRG AV GS BRTHNG	129.	38.1	26.3	36.4	70.4	70.4	0.0	-0.000
PETRLM STRG CRD OIL BRTHNG	1280.	674.	465.	585.	842.	842.	0.0	-0.000
PETRLM STRG GASOLINE BRTHNG	959.	355.	245.	449.	295.	295.	0.0	0.000
PETRLM STRG JET FUEL BRTHNG	213.	62.0	42.8	59.9	114.	114.	0.0	0.000
PETRLM STRG SPC NAP BRTHNG	27.8	12.2	8.4	17.9	12.9	12.9	0.0	-0.000
• ORCHARD HEATERS	353.	276.	185.	185.	353.	185.	168000.	1.000
MALEIC ANHYDRIDE BENZENE OXID.	46.8	16.9	9.3	10.9	40.0	9.3	30600.	0.999
WOOD PULPING KRAFT PROCESS	88.0	78.1	53.9	53.9	88.0	84.8	3200.	0.096
PLYWOOD-VENEER	10.3	8.1	4.0	4.0	10.3	4.1	6200.	0.990
WHISKEY	2.7	1.7	1.2	1.2	2.7	1.2	1500.	0.980
CORE OVENS	152.	112.	80.9	80.9	152.	87.9	63600.	0.900
COKE OVENS - BY PRODUCT	228.	207.	149.	149.	228.	150.	77900.	0.990
SYNTHETIC FIBERS ACETATE	1.8	1.4	0.77	0.77	1.8	0.82	1000.	0.950
VEGETABLE OIL PRODUCTION	145.	114.	81.8	82.1	144.	107.	37400.	0.599
AUTOMOBILE ASSEMBLY	135.	60.8	36.5	60.8	80.9	37.9	42900.	0.967
ACRYLONITRILE	305.	34.0	18.7	67.8	84.2	18.8	65400.	0.998

HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985	
AUTOMOBILE INCINERATORS	0.50	0.13	0.080	0.080	0.50	0.27	0.540
ASPHALT BLOWING	4.4	3.5	2.1	2.1	4.4	2.1	0.990
POLYSTYRENE	24.9	4.3	4.1	11.5	9.0	4.3	0.971
POLYETHYLENE - LOW DENSITY	246.	9.0	8.4	50.1	41.3	10.4	0.940
ETHYLENE OXIDE - AIR OXIDATION	597.	290.	159.	159.	597.	164.	0.990
SYNTHETIC RESINS ACRYLIC	255.	9.1	5.0	33.5	38.2	7.2	0.933
TEXTILE - TEXTURIZING	2.2	0.34	0.20	1.00	0.43	0.26	0.750
TEXTILE - CARPET MFG	1.1	0.57	0.33	0.37	0.95	0.37	0.944
TEXTILE - HEAT SETTING	7.6	1.0	0.61	2.0	2.3	1.4	0.513
PETR - SERVICE STATIONS	666.	287.	198.	327.	403.	229.	0.852
VARNISH	48.4	19.2	6.4	12.4	24.9	6.7	0.981
PETR. - TRANSFER - SP. NAP.	0.94	0.68	0.39	0.51	0.73	0.60	0.378
PETRLM STRG AV GS WRKNG	3.1	2.6	1.8	2.3	4.5	4.5	0.000
PETR. - TRANSFER - CRUDE	77.7	43.5	30.9	36.5	65.7	54.4	0.324
PETRLM STRG CRD OIL WRKNG	323.	181.	125.	148.	225.	225.	0.000
PAINT	81.5	62.9	20.9	20.9	81.5	21.5	0.990
PETRLM STRG GASOLINE WRKNG	205.	89.0	61.4	100.	72.3	72.3	0.000
CHARCOAL	225.	148.	81.4	81.4	225.	82.8	0.990
PETRLM STRG JET FUEL WRKNG	33.4	10.6	7.3	9.4	18.5	18.5	0.000
PETR. - TRANSFER - JET FUEL	17.7	5.6	3.3	4.2	13.7	9.5	0.400

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985	
PETRLM STRG SPC NAP WRKNG 1.7		1.3	0.87	1.1	1.2	1.2	0.000
PETRLM REFRNY PRS GAS C6 4.8		3.2	2.2	2.2	4.8	2.2	1.000
FET REF - VACUUM DIST. 154.		102.	70.4	70.4	154.	70.4	0.999
PETR. - TRANSFER - GAS 108.		47.1	27.4	44.8	66.1	33.8	0.837
PETR. - TRANSFER - AVGAS 4.3		1.4	0.79	1.0	3.3	2.4	0.389
PETR. - REFUELING 88.		632.	436.	436.	888.	504.	0.849
PET REF - MISC PT SOURCE 1859.		1230.	848.	848.	1859.	1354.	0.500
COFFEE ROASTING 0.72		0.72	0.43	0.43	0.72	0.44	0.995
PRINTING INK 34.6		8.5	4.7	11.7	13.9	7.0	0.750
AMMONIA - REGENERATOR & CO ABSORBER 981.		415.	228.	228.	981.	232.	0.995
AMMONIA - METHANATOR PLANT 981.		415.	228.	228.	981.	232.	0.995
MINERAL WOOL 8.4		7.0	4.9	4.9	8.4	6.4	0.569
SEC MAGNESIUM 0.029		0.024	0.016	0.016	0.029	0.016	0.999
DEGREASING 1370.		767.	445.	580.	1051.	524.	0.870
POLYVINYL CHLORIDE 40.5		10.8	10.8	19.1	22.9	10.9	0.991
SEC ZINC SWEAT 0.33		0.23	0.15	0.15	0.33	0.15	0.999
INDUSTRIAL SURFACE COATING 4937.		1899.	1101.	1351.	4025.	1460.	0.877
DEEP FAT FRYING 12.6		6.7	4.8	6.0	10.2	4.9	0.988
SMOKED MEAT 0.60		0.51	0.31	0.31	0.60	0.43	0.571
BEER 62.5		31.8	19.1	19.1	62.5	19.5	0.990

HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS							TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985			
* BRICK & RELATED CLAY PRODUCTS									
GRAPHIC ARTS - LITHOGRAPHY	1.3	1.0	0.69	0.69	1.3	0.69	620.	1.000	
GRAPHIC ARTS - METAL DECORATING	115.	63.0	34.6	38.8	103.	35.4	67200.	0.989	
GRAPHIC ARTS-GRAVURE	111.	58.9	32.4	37.4	95.9	33.1	62700.	0.988	
SYNTHETIC RESINS PHENOLIC	175.	108.	59.2	59.2	175.	59.3	116000.	0.999	
GRAPHIC ARTS FLEXOGRAPHY	6.5	2.5	2.4	3.1	5.0	2.4	2500.	0.987	
SYNTHETIC RESINS ABS-SAN	159.	97.9	53.9	53.9	159.	54.9	104000.	0.990	
GRAPHIC ARTS - LETTERPRESS	2.8	1.1	1.0	1.3	2.2	1.0	1100.	0.987	
SYNTHETIC RESINS UREA-MELANINE	103.	66.0	36.3	36.3	108.	37.0	70400.	0.990	
PHTHALIC ANHYDRIDE - 0-XYLENE	4.5	1.7	1.6	2.1	3.4	1.6	1800.	0.987	
POLYPROPYLENE	45.4	14.2	11.3	17.0	30.3	12.4	17800.	0.942	
CARBON BLACK - FURNACE PROCESS	1.8	0.37	0.36	0.42	1.5	0.36	1100.	0.994	
LEAD ACID BATTERY PLANTS	559.	436.	240.	240.	558.	240.	318000.	0.999	
STYRENE - BUTADIENE RUBBER	0.45	0.21	0.12	0.16	0.34	0.13	200.	0.985	
SYNTHETIC FIBERS NYLON	4.5	3.7	3.6	3.6	4.5	4.3	240.	0.262	
FORMALDEHYDE	14.2	4.3	2.4	2.4	14.2	2.9	11200.	0.950	
FIBERGLASS MANUF - WOOL	102.	33.6	18.5	22.9	82.6	19.3	63300.	0.987	
SYNTHETIC RESINS ALKYD	1.9	1.3	0.48	0.48	1.9	0.53	1400.	0.970	
ETHYLENE DICHLORIDE	0.36	0.31	0.17	0.17	0.36	0.17	180.	0.990	
DIRECT FIRING OF MEAT	339.	20.1	11.0	78.8	47.5	11.3	36100.	0.993	
	85.3	64.1	32.1	32.1	85.3	54.9	30300.	0.570	

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

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HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION			C 1985
			ALLOWABLE E S	E N	UNCONT E U	P B	P C	UNITS/YR	A 1975	B 1985		
INDUSTRIAL SURFACE COATING 0.82 LB/TON			5.340	0.655	6.550	0.042S	0.078C	E6 TONS	867.	364.	971.	
FET REF - MISC PT SOURCE 0.85 LB/TON			0.586	0.293	0.586	0.031S	0.042C	E6 TONS	4937.	1530.	2527.	
DEGREASING 0.82 LB/TON			1.150	0.150	1.500	0.042S	0.032C	E6 TONS	1626.	683.	602.	
PETRLM STRG CRD OIL BRTNG EXIST. 1.00 LB/BARREL			2.290	1.560	2.880	0.031S	0.042C	E6 BBL	589.	183.	300.	
NEW 1.00 LB/BARREL			1.560									
AMMONIA - REGENERATOR & CO ABSORBER 0.83 LB/TON			90.000	0.450	90.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2	
AMMONIA - METHANATOR PLANT 0.83 LB/TON			90.000	0.450	90.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2	
PETRLM STRG GASOLINE BRTNG EXIST. 1.00 LB/BARREL			1.490	0.290	2.850	0.031S	0.035C	E6 BBL	477.	148.	196.	
NEW 1.00 LB/BARREL			0.290									
PETR. - REFUELING 0.85 LB/BARREL			0.504	0.076	0.504	0.031S	0.035C	E6 BBL	2950.	915.	1195.	
INTERNAL COMBUSTION ENGS SPKIGN 0.58 LB/TON			56.000	0.000	56.000	0.020S	0.087S	E6 TONS	28.7	5.7	25.0	
PETR - SERVICE STATIONS 0.85 LB/BARREL			0.229	0.034	0.378	0.031S	0.035C	E6 BBL	2950.	915.	1195.	
ETHYLENE OXIDE - AIR OXIDATION 0.87 LB/TON			392.000	3.920	392.000	0.045S	0.075C	E6 TONS	1.7	0.76	1.8	
CARBON BLACK - FURNACE PROCESS 0.77 LB/TON			570.000	0.570	570.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56	
DRY CLEANING 1.00 LB/TON			258.000	9.000	258.000	0.050S	0.018C	E6 TONS	2.4	1.2	0.86	
ORCHARD HEATERS 1.00 LB/TON			9.200	0.000	9.200	0.033S	0.028S	E6 TONS	60.0	19.8	16.8	
ETHYLENE DICHLORIDE 0.42 LB/TON			19.600	0.140	140.000	0.045S	0.090C	E6 TONS	3.3	1.5	4.5	
PETRLM STRG CRD OIL BRTNG EXIST. 0.85 LB/BARREL			0.071	0.048	0.084	0.031S	0.042C	E6 BBL	6000.	1860.	3054.	
NEW 0.85 LB/BARREL			0.048									
ACRYLONITRILE 0.90 LB/TON			91.000	0.165	330.000	0.045S	0.095C	E6 TONS	0.83	0.37	1.2	
ROLLERS >250 MM BTU/HR 0.58 LB/E6 BTU			0.019	0.000	0.019	0.050S	0.055C	E12 BTU	28011.	14006.	19836.	
PETROL - TANKS - D8 - BREATH 1.00 LB/BARREL			0.431	0.286	0.593	0.031S	0.032C	E6 BBL	643.	199.	238.	
SYNTHETIC RESINS ACRYLIC 0.87 LB/TON			35.000	2.400	240.000	0.045S	0.154C	E6 TONS	0.58	0.26	1.9	

HYDROCARBONS

SUMMARY 9F INPUT/OUTPUT VARIABLES
F9R MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNITS/HR	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION			C
			ALLOWABLE E	EMISSIBLE N		P	B	C	A	B	C	
POLYETHYLENE - LOW DENSITY												
EXISTING	0.88	LB/TON	4.200	0.250	25.000	0.0065	0.0065	0.165C	4.8	0.29	17.5	
POLYETHYLENE - HIGH DENSITY												
EXISTING	1.00	LB/TON	7.400	0.500	50.000	0.0005	0.0005	0.176C	1.9	0.0	7.6	
COKE OVENS - BY PRODUCT												
EXISTING	0.93	LB/TON	5.900	0.060	5.900	0.0285	0.0285	0.0105	75.5	21.1	7.5	
CHARCOAL												
PETROLEUM STRG JET FUEL BURNING												
EXISTING	0.85	LB/TON	438.000	4.400	438.000	0.0455	0.0455	0.043C	0.79	0.36	0.42	
NEW	1.00	LB/BARREL	1.000	0.650	1.400	0.0315	0.0315	0.094C	124.	38.4	181.	
BOILERS 3-10 MM BTU/HR												
EXISTING	0.25	LB/E6 BTU	0.042	0.000	0.042	0.0375	0.0375	0.043C	26471.	9794.	13857.	
INTERNAL COMB ENGS DIESEL DUALFUEL												
EXISTING	0.53	LB/TON	31.300	30.300	31.300	0.0205	0.0205	0.0285	18.0	3.6	5.0	
PETROLEUM STRG GASOLINE BURNING												
EXISTING	0.85	LB/BARREL	0.071	0.012	0.116	0.0315	0.0315	0.035C	2950.	915.	1211.	
NEW	0.85	LB/BARREL	0.012	0.012	0.116	0.0315	0.0315	0.035C	2950.	915.	1211.	
GRAPHIC ARTS-GRAVURE												
EXISTING	0.80	LB/TON	2300.000	2.300	2300.000	0.0455	0.0455	0.050C	0.12	0.053	0.074	
NEW	0.32	LB/E6 BTU	0.045	0.000	0.045	0.0505	0.0505	0.014C	19534.	9767.	2914.	
GRAPHIC ARTS FLEXOGRAPHY												
EXISTING	0.80	LB/TON	4800.000	48.000	4800.000	0.0455	0.0455	0.050C	0.051	0.023	0.032	
PET REF - VACUUM DIST.												
EXISTING	0.85	LB/TON	0.130	0.000	0.130	0.0315	0.0315	0.042C	1846.	572.	945.	
COKE OVENS												
EXISTING	0.93	LB/TON	10.500	1.050	10.500	0.0285	0.0285	0.0355	23.0	6.4	8.0	
VEGETABLE OIL PRODUCTION												
EXISTING	0.92	LB/TON	37.900	15.200	38.000	0.0285	0.0285	0.0275	6.5	1.8	1.8	
AUTOMOBILE ASSEMBLY												
EXISTING	0.91	LB/PROD UNIT	12.500	0.420	21.000	0.0405	0.0405	0.029C	10.6	4.2	3.5	
PETROLEUM STRG AV GS BURNING												
EXISTING	1.00	LB/BARREL	2.060	1.350	2.850	0.0315	0.0315	0.094C	37.0	11.5	53.9	
NEW	1.00	LB/BARREL	1.350	1.350	2.850	0.0315	0.0315	0.094C	37.0	11.5	53.9	
GRAPHIC ARTS - LITHOGRAPHY												
EXISTING	0.80	LB/TON	2500.000	28.000	2800.000	0.0455	0.0455	0.050C	0.063	0.028	0.040	
GRAPHIC ARTS - METAL DECATRATING												
EXISTING	0.80	LB/TON	3200.000	37.000	3700.000	0.0455	0.0455	0.050C	0.046	0.021	0.029	
PETROLEUM - TRANSFER - GAS												
EXISTING	0.85	LB/BARREL	0.071	0.012	0.116	0.0425	0.0425	0.035C	1560.	651.	632.	
GRAPHIC ARTS - LETTERPRESS												
EXISTING	0.80	LB/TON	1500.000	15.000	1500.000	0.0455	0.0455	0.050C	0.11	0.049	0.069	

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SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES			CAPACITY/PRODUCTION			C 1985
			ALLOWABLE E S	EMISSION E N	UNCONT E U	DECIMAL/YR P B	UNIT/YR C	UNIT/YR A	1975	1985		
FORMALDEHYDE												
BOILERS <0.3 MM BTU/HR	0.72	LB/TON	22.200	0.280	27.500	0.045S	0.094C	E6 TONS	4.2	1.9	6.1	
WOOD PULPING KRAFT PROCESS	0.30	LB/E6 BTU	0.019	0.000	0.019	0.020S	0.029C	E12 BTU	24572.	4914.	8131.	
ASPHALT BATCHING	0.98	LB/TON	4.690	4.240	4.690	0.031S	0.012C	E6 TONS	34.0	10.5	4.3	
DIRECT FIRING OF MEAT	0.47	LB/TON	0.167	0.000	0.167	0.008S	0.050S	E6 TONS	1480.	118.	740.	
PAINT	0.62	LB/TON	6136.000	2636.000	6136.000	0.050S	0.033S	E6 TONS	0.034	0.017	0.011	
PETR. - TRANSFER - CRUDE	0.85	LB/TON	30.000	0.300	30.000	0.067S	0.026C	E6 TONS	4.9	3.3	1.5	
BEER	0.85	LB/BARREL	0.071	0.048	0.084	0.024S	0.042C	E6 BBL	1440.	418.	737.	
INDUSTRIAL COMMERCIAL INCINERATORS												
PALEIC ANHYDRIDE BENZENE OXID.	0.85	LB/TON	10.900	0.109	10.900	0.041S	0.070C	E6 TONS	7.2	2.9	7.0	
PHTHALIC ANHYDRIDE - 9-XYLENE	1.00	LB/TON	2.880	0.000	2.880	0.039S	0.110C	E6 TONS	32.6	12.7	60.0	
POLYVINYL CHLORIDE	0.78	LB/TON	34.900	0.679	67.900	0.067S	0.026C	E6 TONS	1.3	0.86	0.38	
MUNICIPAL INCINERATOR	0.82	LB/TON	147.000	0.172	172.000	0.045S	0.090C	E6 TONS	0.23	0.10	0.31	
PRINTING INK	0.56	LB/TON	86.600	5.000	130.000	0.020S	0.079C	E6 TONS	0.42	0.084	0.48	
PETROL STRG JET FUEL WRKNG	0.83	LB/TON	9.600	0.085	17.000	0.000S	0.078C	E6 TONS	2.7	0.0055	3.1	
EXIST. NEW.	0.85	LB/BARREL	2.700	0.070	2.700	0.039S	0.046S	E6 TONS	32.5	12.7	14.9	
PETROL STRG SPC NAP BRTHNG	0.85	LB/TON	48.000	12.000	120.000	0.045S	0.050C	E6 TONS	0.43	0.19	0.27	
EXIST. NEW.	1.00	LB/BARREL	0.090	0.054	0.116	0.031S	0.094C	E6 BBL	276.	85.6	402.	
POLYSTYRENE	0.88	LB/TON	1.340	1.300	2.850	0.031S	0.007C	E6 BBL	18.2	5.6	1.3	
PETR. - TANKS - KER - BREATH	1.00	LB/BARREL	4.200	0.120	11.700	0.005S	0.075C	E6 TONS	2.3	0.12	2.5	
PETR. - TRANSFER - JETFUEL	0.85	LB/BARREL	0.435	0.295	0.593	0.031S	0.000S	E6 BBL	75.8	23.5	0.0	
			0.090	0.054	0.116	0.042S	0.094C	E6 BBL	146.	60.9	213.	

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SUMMARY 8F INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR		UNITS/YR	CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSIBLE E N		P	B		A	B	C
					U				1975	1985	1985
SYNTHETIC FIBERS NYLON											
DEEP FAT FRYING	0.72	LB/TON	7.000	0.350	7.000	0.0455	0.127C	E6 TONS	1.7	0.76	3.9
FLYWOOD-VENEER	0.81	LB/TON	6.240	0.078	7.750	0.0285	0.043C	E6 TONS	2.6	0.74	1.4
MINERAL WOOL	0.95	LB/TON	0.001	0.000	0.001	0.0505	0.025C	E6 TONS	22600.	11300.	6330.
PETRLM STRG AV GS WRKNG	0.82	LB/TON	2.020	0.870	2.020	0.0295	0.0205	E6 TONS	8.4	2.5	1.7
EXIST. NEW.	0.85	LB/BARREL	0.090	0.055	0.116	0.0315	0.094C	E6 BBL	67.0	20.8	97.5
TEXTILE - HEAT SETTING	0.85		0.055								
SYNTHETIC RESINS PHENOLIC	0.86	LB/TON	3.054	1.486	10.180	0.0425	0.081C	E6 TONS	0.79	0.33	0.93
PETRLM REFRNY PRS GAS CB	0.80	LB/TON	5.760	0.075	7.500	0.0055	0.070C	E6 TONS	1.1	0.055	1.1
STYRENE - BUTADIENE RUBBER	0.85	LB/E6 BTU	33.000	0.000	33.000	0.0315	0.042C	E12 BTU	0.23	0.070	0.12
SYNTHETIC RESINS UREA-MELANINE	0.75	LB/TON	4.200	3.100	4.200	0.0035	0.020C	E6 TONS	2.3	0.070	0.51
ASPHALT BLOWING	0.80	LB/TON	5.760	0.075	7.500	0.0055	0.073C	E6 TONS	0.74	0.037	0.76
PETR. - TRANSFER - AYGAS	0.90	LB/TON	2.500	0.025	2.500	0.0425	0.0255	E6 TONS	3.1	1.3	0.79
SYNTHETIC RESINS A95-SAN	0.85	LB/BARREL	0.090	0.055	0.116	0.0425	0.094C	E6 BBL	35.6	14.8	51.8
WISKEY	0.80	LB/TON	5.760	0.075	7.500	0.0055	0.072C	E6 TONS	0.47	0.023	0.47
TEXTILE - TEXTURIZING	0.95	LB/PRD UNIT	2.760	0.055	2.760	0.0325	0.0605	E6 PU	1.3	0.42	0.78
FIBERGLASS MANUF - W80L	0.86	LB/TON	0.920	0.230	4.600	0.0425	0.023C	E6 TONS	0.87	0.36	0.22
SYNTHETIC FIBERS ACETATE	0.70	LB/TON	3.390	0.102	3.390	0.0635	0.042C	E6 TONS	1.1	0.68	0.55
POLYPROPYLENE	0.93	LB/TON	7.000	0.350	7.000	0.0455	0.028C	E6 TONS	0.43	0.19	0.14
PETRLM STRG SPC NAP WRKNG	0.78	LB/TON	0.590	0.003	0.700	0.0035	0.150C	E6 TONS	1.6	0.048	4.9
EXIST. NEW.	0.85	LB/BARREL	0.090	0.056	0.116	0.0315	0.007C	E6 BBL	33.0	10.2	2.4
BRICK & RELATED CLAY PRODUCTS	0.85		0.056								
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.073	0.000	0.073	0.0335	0.0275	E6 TONS	35.7	11.8	9.6

HYDROCARBONS
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCENT E U	GROWTH RATES DECIMAL/YR		UNITS/YR	CAPACITY/PRODUCTION		C 1985
			ALLOWABLE F S	E N		P B	P C		A 1975	B 1985	
TEXTILE - CARPET MFG	0.86	LB/TON	0.720	0.040	0.800	0.042S	0.053C	E6 TONS	1.8	0.76	1.2
PETR. - TRANSFER - SP. NAP.	0.85	LB/BARREL	0.090	0.056	0.110	0.042S	0.007C	E6 BBL	17.7	7.4	1.3
COFFEE ROASTING	0.85	LB/TON	1.100	0.005	1.100	0.040S	0.000S	E6 TONS	1.5	0.62	0.0
SPICED MEAT	0.81	LB/TON	0.350	0.150	0.350	0.040S	0.017C	E6 TONS	3.6	1.4	0.66
AUTOBODY INCINERATORS	0.90	LB/PRD UNIT	1.000	0.460	1.000	0.039S	0.280S	E6 PU	0.29	0.11	0.82
LEAD ACID BATTERY PLANTS	0.76	LB/PRD UNIT	0.007	0.000	0.009	0.040S	0.050C	E6 PU	80.0	32.0	50.3
SYNTHETIC RESINS ALKYD	0.68	LB/TON	1.710	0.017	1.710	0.045S	0.015C	E6 TONS	0.53	0.24	0.085
SEC ZINC SWEAT	0.82	LB/TON	2.810	0.003	2.810	0.035S	0.039C	E6 TONS	0.20	0.069	0.091
PATHOLOGICAL INCINERATOR	0.34	LB/TON	3.800	0.040	3.800	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
SEC MAGNESIUM	0.82	LB/TON	3.390	0.003	3.390	0.035S	0.016C	E6 TONS	0.017	0.0061	0.0030

HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					T N 1985	T S N 1985	T N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N 1985	T S N
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HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS						TONS/YEAR T-S-N 1985	I - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
POLYETHYLENE - LOW DENSITY 240.		9.0	8.4	50.1	41.3	10.4	30800.	0.940
POLYETHYLENE - HIGH DENSITY 232.		7.0	7.0	47.0	35.2	8.9	26300.	0.932
COKE OVENS - BY PRODUCT 228.		207.	149.	149.	228.	150.	77900.	0.990
CHARCOAL 225.		148.	81.4	81.4	225.	82.8	142000.	0.990
PETROLEUM STRG JET FUEL BRTHNG 213.		62.0	42.8	59.9	114.	114.	0.0	0.000
* BOILERS 3-10 MM BTU/HR 212.		139.	87.6	87.6	212.	87.6	124000.	1.000
INTERNAL COMB ENGS DIESEL DUALFUEL 209.		163.	130.	130.	209.	206.	2500.	0.032
PETROLEUM STRG GASOLINE WTKNG 205.		89.0	61.4	100.	72.3	72.3	0.0	0.000
GRAPHIC ARTS-GRAVURE 175.		108.	59.2	59.2	175.	59.3	116000.	0.999
* BOILERS 10-250 MM BTU/HR 162.		141.	70.3	70.3	162.	70.3	91200.	1.000
GRAPHIC ARTS FLEXOGRAPHY 153.		97.9	53.9	53.9	159.	54.3	104000.	0.990
PET REF - VACUUM DIST. 154.		102.	70.4	70.4	154.	70.4	83700.	0.999
CORE OVENS 152.		112.	80.9	80.9	152.	87.9	63600.	0.900
VEGETABLE OIL PRODUCTION 145.		114.	81.8	82.1	144.	107.	37400.	0.599
AUTOMOBILE ASSEMBLY 135.		60.8	36.5	60.8	80.9	37.9	42900.	0.967
PETROLEUM STRG AV GS BRTHNG 129.		38.1	26.3	36.4	70.4	70.4	0.0	-0.000
GRAPHIC ARTS - LITHOGRAPHY 115.		63.0	34.6	38.8	103.	35.4	67200.	0.989
GRAPHIC ARTS - METAL DECORATING 111.		58.9	32.4	37.4	95.9	33.1	62700.	0.988
PETROLEUM - TRANSFER - GAS 108.		47.1	27.4	44.8	66.1	33.8	32300.	0.837
GRAPHIC ARTS - LETTERPRESS 108.		66.0	36.3	36.3	108.	37.0	70400.	0.990

HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS 1000 TONS/YEAR				T N 1985	TENS/YEAR T - T S N 1985	1 - E / E N S
			T E 1985	T UE 1985	T S 1985	T N 1985			
FORMALDEHYDE									
* BOILERS <0.3 MM BTU/HR	102.	33.6	18.5	22.9	82.6	19.3	63300.	0.987	
WOOD PULPING KRAFT PROCESS	93.2	70.0	56.0	56.0	93.2	56.0	37100.	1.000	
* ASPHALT BATCHING	88.0	78.1	53.9	53.9	88.0	84.8	3200.	0.096	
DIRECT FIRING OF HEAT	87.1	58.1	53.4	53.4	87.1	53.4	33600.	1.000	
PAINT	85.3	64.1	32.1	32.1	85.3	54.9	30300.	0.570	
PETR. - TRANSFER - CRUDE	81.5	62.9	20.9	20.9	81.5	21.5	59900.	0.990	
BEER	77.7	43.5	30.9	36.5	65.7	54.4	11200.	0.324	
* INDUSTRIAL COMMERCIAL INCINERATORS	62.5	31.8	19.1	19.1	62.5	19.5	43000.	0.990	
VARNISH	50.7	17.8	10.9	10.9	50.7	10.9	39700.	1.000	
MALEIC ANHYDRIDE BENZENE OXID.	48.4	19.2	6.4	12.4	24.9	6.7	18100.	0.981	
PHTHALIC ANHYDRIDE - 0-XYLENE	46.8	16.9	9.3	10.9	40.0	9.3	30600.	0.999	
POLYVINYL CHLORIDE	45.4	14.2	11.3	17.0	30.3	12.4	17800.	0.942	
* MUNICIPAL INCINERATOR	40.5	10.8	10.8	19.1	22.9	10.9	11900.	0.991	
PRINTING INK	35.9	24.6	15.0	15.0	35.9	15.0	20800.	1.000	
PETRLM STRG JET FUEL WRKING	34.6	8.5	4.7	11.7	13.9	7.0	6800.	0.750	
PETRLM STRG SPC NAP BRTHG	33.4	10.6	7.3	9.4	18.5	18.5	0.0	0.000	
POLYSTYRENE	27.8	12.2	8.4	17.9	12.9	12.9	0.0	-0.000	
PETR. - TANKS - KER - BREATH	24.9	4.3	4.1	11.5	9.0	4.3	4600.	0.971	
PETR. - TRANSFER - JETFUEL	22.5	16.5	11.4	15.5	16.5	14.8	1600.	0.322	
	17.7	5.6	3.3	4.2	13.7	9.5	4100.	0.400	

HYDROCARBONS

SUMMARY 3F OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				T S 1985	T N 1985	TONS/YEAR T-S N 1985	1 - E /E N S
			1000 TONS/YEAR	T E 1985	T UE 1985	T S 1985				
SYNTHETIC FIBERS NYLON	14.2	4.3	2.4	2.4	6.4	14.2	2.9	11200.	0.950	
DEEP FAT FRYING	12.6	6.7	4.8	4.8	6.0	10.2	4.9	5200.	0.988	
PLYWOOD-VEENEER	10.3	8.1	4.0	4.0	4.0	10.3	4.1	6200.	0.990	
MINERAL WOOL	8.4	7.0	4.9	4.9	4.9	8.4	6.4	1900.	0.569	
PETRLM STRG AV GS WRKNG	3.1	2.6	1.8	1.8	2.3	4.5	4.5	0.0	0.000	
TEXTILE - HEAT SETTING	7.6	1.0	0.61	0.61	2.0	2.3	1.4	850.	0.513	
SYNTHETIC RESINS PHENOLIC	6.5	2.5	2.4	2.4	3.1	5.0	2.4	2500.	0.987	
PETRLM REFNRY PRS GAS CO	4.8	3.2	2.2	2.2	2.2	4.8	2.2	2600.	1.000	
STYRENE - BUTADIENE RUBBER	4.5	3.7	3.6	3.6	3.6	4.5	4.3	240.	0.262	
SYNTHETIC RESINS UREA-MELANINE	4.5	1.7	1.6	1.6	2.1	3.4	1.6	1800.	0.987	
ASPHALT BLOWING	4.4	3.5	2.1	2.1	2.1	4.4	2.1	2300.	0.990	
PETR. - TRANSFER - AVGAS	4.3	1.4	0.79	0.79	1.0	3.3	2.4	990.	0.389	
SYNTHETIC RESINS ABS-SAN	2.8	1.1	1.0	1.0	1.3	2.2	1.0	1100.	0.987	
WHISKEY	2.7	1.7	1.2	1.2	1.2	2.7	1.2	1500.	0.980	
TEXTILE - TEXTURIZING	2.2	0.34	0.20	0.20	1.00	0.43	0.26	170.	0.750	
FIBERGLASS MANUF - WOOL	1.9	1.3	0.48	0.48	0.48	1.9	0.53	1400.	0.970	
SYNTHETIC FIBERS ACETATE	1.8	1.4	0.77	0.77	0.77	1.8	0.82	1000.	0.950	
POLYPROPYLENE	1.8	0.37	0.36	0.36	0.42	1.5	0.36	1100.	0.994	
PETRLM STRG SPC NAP WRKNG	1.7	1.3	0.87	0.87	1.1	1.2	1.2	0.0	0.000	
BRICK & RELATED CLAY PRODUCTS	1.3	1.0	0.69	0.69	0.69	1.3	0.69	620.	1.000	

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HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	EMISSION RATES UNCERT E U	GROWTH RATES DECIMAL/YR			UNITS/YR	CAPACITY/PRODUCTION		
					P	B	C		A	B	C
									1975	1985	1985
INDUSTRIAL SURFACE COATING											
FEI REF - MISC PT SOURCE	0.82	LB/TON	5.340	0.655	6.550	0.042S	0.078C	E6 TONS	867.	364.	971.
DEGREASING	0.85	LB/TON	0.586	0.293	0.586	0.031S	0.042C	E6 TONS	4937.	1530.	2527.
PETRLM STRG CRD OIL BRTHNG	0.82	LB/TON	1.150	0.150	1.500	0.042S	0.032C	E6 TONS	1626.	683.	602.
PETRLM STRG CRD OIL BRTHNG EXIST. NEW.	1.00 1.00	LB/BARREL	2.290 1.560	1.560	2.880	0.031S	0.042C	E6 BBL	589.	183.	300.
PETR. - REFUELING											
INTERNAL COMBUSTION ENGS SPKIGN	0.85	LB/BARREL	0.504	0.076	0.504	0.031S	0.035C	E6 BBL	2950.	915.	1195.
CARBON BLACK - FURNACE PROCESS	0.58	LB/TON	56.000	0.000	56.000	0.020S	0.087S	E6 TONS	28.7	5.7	25.0
AMMONIA - METHANATOR PLANT	0.77	LB/TON	570.000	0.570	570.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56
AMMONIA - REGENERATOR & CO ABSORBER	0.83	LB/TON	90.000	0.450	90.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
PETRLM STRG GASOLINE BRTHNG	0.83	LB/TON	90.000	0.450	90.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
PETRLM STRG GASOLINE BRTHNG EXIST. NEW.	1.00 1.00	LB/BARREL	1.490 0.290	0.290	2.850	0.031S	0.035C	E6 BBL	477.	148.	196.
CRY CLEANING											
ETHYLENE OXIDE - AIR OXIDATION	1.00	LB/TON	258.000	9.000	258.000	0.050S	0.018C	E6 TONS	2.4	1.2	0.46
PETR - SERVICE STATIONS	0.87	LB/TON	392.000	3.920	392.000	0.045S	0.075C	E6 TONS	1.7	0.76	1.8
ORCHARD HEATERS	0.85	LB/BARREL	0.229	0.034	0.378	0.031S	0.035C	E6 BBL	2950.	915.	1195.
COKE OVENS - BY PRODUCT	1.00	LB/TON	9.200	0.000	9.200	0.033S	0.028S	E6 TONS	60.0	19.8	16.8
PETRLM STRG CRD OIL WRKNG	0.93	LB/TON	5.900	0.060	5.900	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
PETRLM STRG CRD OIL WRKNG EXIST. NEW.	0.85 0.85	LB/BARREL	0.071 0.048	0.048	0.084	0.031S	0.042C	E6 BBL	6000.	1860.	3054.
INTERNAL COMB ENGS DIESEL DUALFUEL											
BOILERS >250 MM BTU/HR	0.58	LB/TON	31.300	30.300	31.300	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
CHARCOAL	0.58	LB/E6 BTU	0.019	0.000	0.019	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
BOILERS 10-250 MM BTU/HR	0.85	LB/TON	438.000	4.400	438.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42
BOILERS 10-250 MM BTU/HR	0.32	LB/E6 BTU	0.045	0.000	0.045	0.050S	0.014C	E12 BTU	19534.	9767.	2914.

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES			CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N	UNCONT E U	DECIMAL/YR P B	DECIMAL/YR P C	UNITS/YR	A 1975	B 1985	C 1985
BOILERS 3-10 MM BTU/HR	0.25	LB/E6 BTU	0.042	0.000	0.042	0.0375	0.0430	E12 BTU	26471.	9794.	13857.
PETRO. - TANKS - DA - BREATH	1.00	LB/BARREL	0.431	0.286	0.593	0.0315	0.0320	E6 BBL	643.	199.	238.
VEGETABLE OIL PRODUCTION	0.92	LB/TON	37.900	15.200	38.000	0.0285	0.0275	E6 TONS	6.5	1.8	1.8
CORE OVENS	0.93	LB/TON	10.500	1.050	10.500	0.0285	0.0355	E6 TONS	23.0	6.4	8.0
GRAPHIC ARTS-GRAVURE	0.80	LB/TON	2300.000	2.300	2300.000	0.0455	0.0500	E6 TONS	0.12	0.053	0.074
PET REF - VACUUM DIST.	0.85	LB/TON	0.130	0.000	0.130	0.0315	0.0420	E6 TONS	1846.	572.	945.
GRAPHIC ARTS FLEXOGRAPHY	0.80	LB/TON	4800.000	48.000	4800.000	0.0455	0.0500	E6 TONS	0.051	0.023	0.032
PETROL STRG GASOLINE WKG	0.85	LB/BARREL	0.071	0.012	0.116	0.0315	0.0350	E6 BBL	2950.	915.	1211.
EXIST. NEW.	0.85	LB/BARREL	0.012	0.012	0.116	0.0315	0.0350	E6 BBL	2950.	915.	1211.
WOOD PULPING KRAFT PROCESS	0.98	LB/TON	4.690	4.240	4.690	0.0315	0.0120	E6 TONS	34.0	10.5	4.3
BOILERS 4.3 MM BTU/HR	0.30	LB/E6 BTU	0.019	0.000	0.013	0.0205	0.0290	E12 BTU	24572.	4914.	8131.
GRAPHIC ARTS - LETTERPRESS	0.80	LB/TON	1500.000	15.000	1500.000	0.0455	0.0500	E6 TONS	0.11	0.049	0.069
DIRECT FIRING OF MEAT	0.62	LB/TON	6136.000	2636.000	6136.000	0.0505	0.0335	E6 TONS	0.034	0.017	0.011
GRAPHIC ARTS - LITHOGRAPHY	0.80	LB/TON	2500.000	28.000	2800.000	0.0455	0.0500	E6 TONS	0.063	0.028	0.040
FAINT	0.85	LB/TON	30.000	0.300	30.000	0.0675	0.0260	E6 TONS	4.9	3.3	1.5
PETROL STRG JET FUEL BRTHG	1.00	LB/BARREL	1.000	0.650	1.400	0.0315	0.0940	E6 BBL	124.	38.4	181.
EXIST. NEW.	1.00	LB/BARREL	0.650	0.650	1.400	0.0315	0.0940	E6 BBL	124.	38.4	181.
AUTOMOBILE ASSEMBLY	0.91	LB/PRD UNIT	12.600	0.420	21.000	0.0405	0.0290	E6 PU	10.6	4.2	3.5
GRAPHIC ARTS - METAL DECORATING	0.80	LB/TON	3200.000	37.000	3700.000	0.0455	0.0500	E6 TONS	0.046	0.021	0.029
ASPHALT BATCHING	0.47	LB/TON	0.167	0.000	0.167	0.0085	0.0505	E6 TONS	1480.	118.	740.
PETRO. - TRANSFER - GAS	0.85	LB/BARREL	0.071	0.012	0.116	0.0425	0.0350	E6 BBL	1560.	651.	632.
PETRO. - TRANSFER - CRUDE	0.85	LB/BARREL	0.071	0.048	0.084	0.0295	0.0420	E6 BBL	1440.	418.	737.

HYDROCARBONS

SUMMARY 3F INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES		UNITS/YR	CAPACITY/PRODUCTION		C 1985
			ALLOWABLE F S	EMISSION E N	UNCONT E U	DECIMAL/YR P D		A 1975	B 1985	
PETRLM STRG AV GS BRTHNG EXIST= 1.00 LB/BARREL NEW= 1.00			2.060 1.350	1.350	2.850	0.031S	0.094C E6 EBL	37.0	11.5	53.9
ACRYLONITRILE	0.90	LB/TON	91.000	0.165	330.000	0.045S	0.095C E6 TONS	0.83	0.37	1.2
FORMALDEHYDE	0.72	LB/TON	22.200	0.280	27.500	0.045S	0.094C E6 TONS	4.2	1.9	6.1
BEER	0.81	LB/TON	10.900	0.109	10.900	0.040S	0.070C E6 TONS	7.2	2.9	7.0
MUNICIPAL INCINERATOR	0.56	LB/TON	2.700	0.000	2.700	0.039S	0.046S E6 TONS	32.5	12.7	14.9
ETHYLENE DICHLORIDE	0.62	LB/TON	19.600	0.140	140.000	0.045S	0.090C E6 TONS	3.3	1.5	4.5
VARNISH	0.85	LB/TON	34.900	0.679	67.900	0.067S	0.026C E6 TONS	1.3	0.86	0.38
INDUSTRIAL COMMERCIAL INCINERATORS	0.38	LB/TON	2.380	0.000	2.880	0.039S	0.110C E6 TONS	32.6	12.7	60.0
PALEIC ANHYDRIDE BENZENE OXID.	1.00	LB/TON	147.000	0.172	172.000	0.045S	0.090C E6 TONS	0.23	0.10	0.31
PETR. - TANKS - KER - BREATH	1.00	LB/BARREL	6.435	0.295	0.593	0.031S	0.000S E6 EBL	75.8	23.5	0.0
PHTHALIC ANHYDRIDE - O-XYLENE	0.78	LB/TON	86.600	5.000	130.000	0.020S	0.079C E6 TONS	0.42	0.084	0.48
PETRLM STRG SPC NAP BRTHNG EXIST= 1.00 LB/BARREL NEW= 1.00			1.340 1.300	1.300	2.850	0.031S	0.007C E6 EBL	18.2	5.6	1.3
POLYVINYL CHLORIDE	0.82	LB/TON	9.600	0.085	17.000	0.000S	0.078C E6 TONS	2.7	0.0055	3.1
PETRLM STRG JET FUEL EXIST= 0.85 LB/BARREL NEW= 0.85			0.090 0.054	0.054	0.116	0.031S	0.094C E6 EBL	276.	85.6	402.
SYNTHETIC RESINS ACRYLIC	0.87	LB/TON	36.000	2.400	240.000	0.045S	0.154C E6 TONS	0.58	0.26	1.9
POLYETHYLENE - LOW DENSITY	0.38	LB/TON	4.200	0.250	25.000	0.006S	0.165C E6 TONS	4.8	0.29	17.5
PRINTING INK	0.83	LB/TON	48.000	12.000	120.000	0.045S	0.050C E6 TONS	0.43	0.19	0.27
FLYWOOD-VENEER	0.95	LB/TON	0.001	0.000	0.001	0.050S	0.025C E6 TONS	22600.	11300.	6330.
MINERAL WOOL	0.82	LB/TON	2.020	0.870	2.020	0.029S	0.020S E6 TONS	8.4	2.5	1.7
POLYETHYLENE - HIGH DENSITY	1.00	LB/TON	7.400	0.500	50.000	0.000S	0.176C E6 TONS	1.9	0.0	7.6

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES			CAPACITY/PRODUCTION			C 1985
			ALLOWABLE E S	EMISSION E N	UNCERT E U	P B	P C	UNITS/YR	A 1975	B 1985		
DEEP FAT FRYING	0.81	LB/TON	6.240	0.078	7.750	0.028S	0.043C	E6 TONS	2.6	0.74		1.4
PETR. - TRANSFER - JETFUEL	0.85	LB/BARREL	0.090	0.054	0.116	0.042S	0.094C	E6 BBL	146.	60.9		213.
POLYSTYRENE	0.88	LB/TON	4.200	0.120	11.700	0.005S	0.075C	E6 TONS	2.3	0.12		2.5
SYNTHETIC FIBERS NYLON	0.72	LB/TON	7.000	0.350	7.000	0.045S	0.127C	E6 TONS	1.7	0.76		3.9
STYRENE - BUTADIENE RUBBER	0.75	LB/TON	4.200	3.100	4.200	0.003S	0.020C	E6 TONS	2.3	0.070		0.51
ASPHALT BLOWING	0.90	LB/TON	2.500	0.025	2.500	0.042S	0.025S	E6 TONS	3.1	1.3		0.79
PETRLM REFRNRY PRS GAS CO	0.85	LB/E6 BTU	33.000	0.000	33.000	0.031S	0.042C	E12 BTU	0.23	0.070		0.12
PETRLM STRG AV GS WRKNG EXIST. NEW.	0.85 0.85	LB/BARREL	0.090 0.055	0.055	0.116	0.031S	0.094C	E6 BBL	67.0	20.8		97.5
SYNTHETIC RESINS PHENOLIC	0.80	LB/TON	5.760	0.075	7.500	0.005S	0.070C	E6 TONS	1.1	0.055		1.1
SYNTHETIC RESINS UREA-MELANINE	0.80	LB/TON	5.760	0.075	7.500	0.005S	0.073C	E6 TONS	0.74	0.037		0.76
WHISKEY	0.95	LB/PRD UNIT	2.760	0.055	2.760	0.032S	0.060S	E6 PU	1.3	0.42		0.78
SYNTHETIC FIBERS ACETATE	0.93	LB/TON	7.000	0.350	7.000	0.045S	0.028C	E6 TONS	0.43	0.19		0.14
PETR. - TRANSFER - AVGAS	0.85	LB/BARREL	0.090	0.055	0.116	0.042S	0.094C	E6 BBL	35.6	14.8		51.8
FIBERGLASS MANUF - W88L	0.70	LB/TON	3.390	0.102	3.390	0.063S	0.042C	E6 TONS	1.1	0.68		0.55
PETRLM STRG SPC NAP WRKNG EXIST. NEW.	0.85 0.85	LB/BARREL	0.090 0.056	0.056	0.116	0.031S	0.007C	E6 BBL	33.0	10.2		2.4
SYNTHETIC RESINS ABS-SAN	0.80	LB/TON	5.760	0.075	7.500	0.005S	0.072C	E6 TONS	0.47	0.023		0.47
TEXTILE - HEAT SETTING	0.86	LB/TON	3.054	1.486	10.130	0.042S	0.081C	E6 TONS	0.79	0.33		0.93
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.073	0.000	0.073	0.033S	0.027S	E6 TONS	35.7	11.8		9.6
COFFEE ROASTING	0.85	LB/TON	1.100	0.005	1.100	0.040S	0.000S	E6 TONS	1.5	0.62		0.0
PETR. - TRANSFER - SP. NAP. 0.85	0.85	LB/BARREL	0.090	0.056	0.116	0.042S	0.007C	E6 BBL	17.7	7.4		1.3

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	E N		P d	P	C	A 1975	B 1985	
TEXTILE - CARPET MFG	0.86	LB/TON	0.720	0.040	0.800	0.042S	0.053C	E6 TONS	1.8	0.76	1.2
SMOKED MEAT	0.81	LB/TON	0.350	0.150	0.350	0.040S	0.017C	E6 TONS	3.6	1.4	0.66
POLYPROPYLENE	0.78	LB/TON	0.590	0.003	0.700	0.003S	0.150C	E6 TONS	1.6	0.048	4.9
TEXTILE - TEXTURIZING	0.86	LB/TON	0.920	0.230	4.600	0.042S	0.023C	E6 TONS	0.87	0.36	0.22
SYNTHETIC RESINS ALKYL	0.68	LB/TON	1.710	0.017	1.710	0.045S	0.015C	E6 TONS	0.53	0.24	0.085
SEC ZINC SWEAT	0.82	LB/TON	2.810	0.003	2.810	0.035S	0.039C	E6 TONS	0.20	0.069	0.091
LEAD ACID BATTERY PLANTS	0.76	LB/PRD UNIT	0.007	0.000	0.009	0.040S	0.050C	E6 PU	80.0	32.0	50.3
AUTOBODY INCINERATORS	0.90	LB/PRD UNIT	1.000	0.460	1.000	0.039S	0.280S	E6 PU	0.29	0.11	0.82
PATHOLOGICAL INCINERATOR	0.34	LB/TON	3.800	0.040	3.800	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
SEC MAGNESIUM	0.82	LB/TON	3.390	0.003	3.390	0.035S	0.016C	E6 TONS	0.017	0.0061	0.0030

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985		
INDUSTRIAL SURFACE COATING 4937.		1899.	1101.	1351.	4025.	2560000.	0.877
PET REF - MISC PT SOURCE 1859.		1230.	848.	848.	1859.	505000.	0.500
DEGREASING 1370.		767.	445.	580.	1051.	526000.	0.870
PETRLM STRG CRD OIL BRTHNG 1280.		674.	465.	585.	842.	0.0	-0.000
PETR. - REFUELING 888.		632.	436.	436.	888.	383000.	0.849
INTERNAL COMBUSTION ENGS SPKIGN 873.		467.	373.	373.	873.	499000.	1.000
CARBON BLACK - FURNACE PROCESS 553.		436.	240.	240.	558.	318000.	0.999
AMMONIA - METHANATOR PLANT 981.		415.	228.	228.	981.	749000.	0.995
AMMONIA - REGENERATOR & CO ABSORBER 991.		415.	228.	228.	981.	749000.	0.995
PETRLM STRG GASOLINE BRTHNG 959.		355.	245.	449.	295.	0.0	0.000
DRY CLEANING 364.		304.	152.	152.	364.	204000.	0.965
ETHYLENE OXIDE - AIR OXIDATION 597.		290.	159.	159.	597.	433000.	0.990
PETR - SERVICE STATIONS 666.		287.	198.	327.	403.	174000.	0.852
GRCHARH HEATERS 353.		276.	185.	185.	353.	164000.	1.000
COKE OVENS - BY PRODUCT 224.		207.	149.	149.	228.	77900.	0.990
PETRLM STRG CRD OIL BRTHNG 323.		181.	125.	148.	225.	0.0	0.000
INTERNAL COMB ENGS DIESEL DUALFUEL 203.		163.	130.	130.	209.	2500.	0.032
BOILERS >250 MM BTU/HR 264.		154.	77.2	77.2	264.	186000.	1.000
CHARCOAL 225.		148.	81.4	81.4	225.	142000.	0.990
BOILERS 10-250 MM BTU/HR 162.		141.	70.3	70.3	162.	91200.	1.000

HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS			T N 1985	TONS/YEAR T-S-N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985			
• BOILERS 0.3-10 MM BTU/HR 212.		139.	87.6	87.6	212.	87.6	124000.	1.000
PETRO. - TANKS - DO - BREATH 261.		139.	95.6	132.	190.	158.	31700.	0.336
VEGETABLE OIL PRODUCTION 145.		114.	81.8	82.1	144.	107.	37400.	0.599
CORE OVENS 152.		112.	80.9	80.9	152.	87.9	63600.	0.900
GRAPHIC ARTS-GRAVURE 175.		108.	59.2	59.2	175.	59.3	116000.	0.999
PET REF - VACUUM DIST. 154.		102.	70.4	70.4	154.	70.4	83700.	0.999
GRAPHIC ARTS FLEXOGRAPHY 159.		97.9	53.9	53.9	159.	54.9	104000.	0.990
PETRLM STRG GASOLINE MKNG 205.		59.0	61.4	100.	72.3	72.3	0.0	0.000
WOOD PULPING KRAFT PROCESS 88.0		78.1	53.9	53.9	88.0	84.8	3200.	0.096
• BOILERS <0.3 MM BTU/HR 93.2		70.0	56.0	56.0	93.2	56.0	37100.	1.000
GRAPHIC ARTS - LETTERPRESS 103.		66.0	36.3	36.3	108.	37.0	70400.	0.990
DIRECT FIRING OF HEAT 85.3		64.1	32.1	32.1	85.3	54.9	30300.	0.570
GRAPHIC ARTS - LITHOGRAPHY 115.		63.0	34.6	38.8	103.	35.4	67200.	0.989
PAINT 81.5		62.9	20.9	20.9	81.5	21.5	59900.	0.990
PETRLM STRG JET FUEL BRTHG 213.		62.0	42.8	59.9	114.	114.	0.0	0.000
AUTOMOBILE ASSEMBLY 135.		60.8	36.5	60.8	80.9	37.9	42900.	0.967
GRAPHIC ARTS - METAL DECORATING 111.		58.9	32.4	37.4	95.9	33.1	62700.	0.988
• ASPHALT BATCHING 87.1		58.1	53.4	53.4	87.1	53.4	33600.	1.000
PETR. - TRANSFER - GAS 108.		47.1	27.4	44.8	66.1	33.8	32300.	0.837
PETR. - TRANSFER - CRUDE 77.7		43.5	30.9	46.5	65.7	54.4	11200.	0.324

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE

EMISSIONS

SOURCE	T J 1955	T A 1975	T E 1985	1000 TONS/YEAR		T S 1985	T N 1985	TENS/YEAR T S N 1985	1 - E/E N S
				T 1985	T 1985				
PETRLM STRG AV GS BRTHG	129.	38.1	26.3	36.4	70.4	70.4	70.4	0.0	-0.000
ACRYLONITRILE	305.	34.0	18.7	67.8	84.2	84.2	18.4	65400.	0.998
FORMALDEHYDE	102.	33.6	18.5	22.9	82.6	82.6	19.3	63300.	0.987
BEER	62.5	31.8	19.1	19.1	62.5	62.5	19.5	43000.	0.990
• MUNICIPAL INCINERATOR	35.9	24.6	15.0	15.0	35.9	35.9	15.0	20800.	1.000
ETHYLENE DICHLORIDE	339.	20.1	11.0	78.8	47.5	47.5	11.3	36100.	0.973
VARNISH	48.4	19.2	6.4	12.4	24.9	24.9	6.7	18100.	0.981
• INDUSTRIAL COMMERCIAL INCINERATORS	50.7	17.4	10.9	10.9	50.7	50.7	10.9	39700.	1.000
MALEIC ANHYDRIDE BENZENE OXID.	46.8	16.9	9.3	10.3	40.0	40.0	9.3	30600.	0.939
PETR. - TANKS - KER - BREATH	22.5	16.5	11.4	15.5	16.5	16.5	14.8	1600.	0.322
PHTHALIC ANHYDRIDE - O-XYLENE	45.4	14.2	11.3	17.0	30.3	30.3	12.4	17800.	0.942
PETRLM STRG SPC NAP BRTHG	27.8	12.2	8.4	17.9	12.9	12.9	12.9	0.0	-0.000
POLYVINYL CHLORIDE	40.5	10.8	10.8	19.1	22.9	22.9	10.9	11900.	0.991
PETRLM STRG JET FUEL MKING	33.4	10.6	7.3	9.4	18.5	18.5	18.5	0.0	0.000
SYNTHETIC RESINS ACRYLIC	255.	9.1	5.0	33.5	38.2	38.2	7.2	31000.	0.933
POLYETHYLENE - LOW DENSITY	245.	9.0	8.4	50.1	41.3	41.3	10.4	30800.	0.940
PRINTING INK	34.6	8.5	4.7	11.7	13.9	13.9	7.0	6800.	0.750
PLYWOOD-VENEER	10.3	8.1	4.0	4.0	10.3	10.3	4.1	6200.	0.990
MINERAL WOOL	8.4	7.0	4.9	4.9	8.4	8.4	6.4	1900.	0.569
POLYETHYLENE - HIGH DENSITY	238.	7.0	7.0	47.0	35.2	35.2	8.9	26300.	0.932

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS							TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985			
DEEP FAT FRYING	12.6	6.7	4.8	6.0	10.2	4.9	5200.	0.988	
PETR. - TRANSFER - JETFUEL	17.7	5.6	3.3	4.2	13.7	9.5	4100.	0.400	
POLYSTYRENE	24.9	4.3	4.1	11.5	9.0	4.3	4600.	0.971	
SYNTHETIC FIBERS NYLON	14.2	4.3	2.4	2.4	14.2	2.9	11200.	0.950	
STYRENE - BUTADIENE RUBBER	4.5	3.7	3.6	3.6	4.5	4.3	240.	0.262	
ASPHALT BLOWING	4.4	3.5	2.1	2.1	4.4	2.1	2300.	0.990	
PETRLM REFINRY PRS GAS C9	4.8	3.2	2.2	2.2	4.8	2.2	2600.	1.000	
PETRLM STRG AV GS WRKNG	3.1	2.6	1.8	2.3	4.5	4.5	0.0	0.000	
SYNTHETIC RESINS PHENOLIC	8.5	2.5	2.4	3.1	5.0	2.4	2500.	0.987	
SYNTHETIC RESINS UREA-MELANINE	4.5	1.7	1.6	2.1	3.4	1.6	1800.	0.987	
WHISKEY	2.7	1.7	1.2	1.2	2.7	1.2	1500.	0.980	
SYNTHETIC FIBERS ACETATE	1.8	1.4	0.77	0.77	1.8	0.82	1000.	0.950	
PETR. - TRANSFER - AVGAS	4.3	1.4	0.79	1.0	3.3	2.4	990.	0.389	
FIBERGLASS MANUF - W08L	1.9	1.3	0.44	0.44	1.9	0.53	1400.	0.970	
PETRLM STRG SPC NAP WRKNG	1.7	1.3	0.87	1.1	1.2	1.2	0.0	0.000	
SYNTHETIC RESINS ABS-SAN	2.8	1.1	1.0	1.3	2.2	1.0	1100.	0.987	
TEXTILE - HEAT SETTING	7.6	1.0	0.61	2.0	2.3	1.4	850.	0.513	
BRICK & RELATED CLAY PRODUCTS	1.3	1.0	0.69	0.69	1.3	0.69	620.	1.000	
COFFEE ROASTING	0.72	0.72	0.43	0.43	0.72	0.44	280.	0.995	
PETR. - TRANSFER - SP. NAP.	0.94	0.68	0.39	0.51	0.73	0.60	120.	0.378	

HYDROCARBONS

SUMMARY OF JUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS			T N 1985	T S N 1985	T S N 1985	I - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985				
TEXTILE - CARPET MFG	1.1	0.57	0.33	0.37	0.95	0.37	580.	0.944	
SMOKED MEAT	0.60	0.51	0.31	0.31	0.60	0.43	170.	0.571	
POLYPROPYLENE	1.8	0.37	0.36	0.42	1.5	0.36	1100.	0.994	
TEXTILE - TEXTURIZING	2.2	0.34	0.20	1.00	0.43	0.26	170.	0.750	
SYNTHETIC RESINS ALKYD	0.36	0.31	0.17	0.17	0.36	0.17	180.	0.990	
SEC ZINC SWEAT	0.33	0.23	0.15	0.15	0.33	0.15	180.	0.999	
LEAD ACID BATTERY PLANTS	0.45	0.21	0.12	0.16	0.34	0.13	200.	0.985	
AUTOBODY INCINERATORS	0.50	0.13	0.080	0.080	0.50	0.27	220.	0.540	
PATHOLOGICAL INCINERATOR	0.11	0.084	0.051	0.051	0.11	0.052	50.0	0.989	
SEC MAGNESIUM	0.029	0.024	0.016	0.016	0.029	0.016	10.0	0.999	

T_E

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			UNCONT E U	GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C 1985
			F S	E N	P B		A 1975	B 1985				
INDUSTRIAL SURFACE COATING												
PET REF - MISC PT SOURCE	0.82	LB/TON	5.340	0.655	0.0425	0.078C	E6 TONS	867.	364.	971.		
PETROLEUM STRG CRD OIL BRTHNG	0.85	LB/TON	0.596	0.293	0.0315	0.042C	E6 TONS	4937.	1530.	2527.		
PETROLEUM STRG CRD OIL BRTHNG EXIST. NEW	1.00 1.00	LB/BARREL	2.290 1.560	1.560	0.0315	0.042C	E6 BBL	589.	183.	300.		
DEGREASING	0.82	LB/TON	1.150	0.150	0.0425	0.032C	E6 TONS	1626.	683.	602.		
PETR. - REFUELING	0.85	LB/TARREL	0.504	0.076	0.0315	0.035C	E6 BBL	2950.	915.	1195.		
INTERNAL COMBUSTION ENGS SPMGN	0.58	LB/TON	56.000	0.000	0.0205	0.0875	E6 TONS	28.7	5.7	25.0		
PETROLEUM STRG GASOLINE BRTHNG EXIST. NEW	1.00 1.00	LB/BARREL	1.490 0.290	0.290	0.0315	0.035C	E6 BBL	477.	148.	196.		
CARBON BLACK - FURNACE PROCESS	0.77	LB/TON	570.000	0.570	0.0455	0.025C	E6 TONS	2.0	0.89	0.56		
AMMONIA - REGENERATOR & CO ABSORBER	0.83	LB/TON	90.000	0.450	0.0455	0.090C	E6 TONS	11.1	5.0	15.2		
AMMONIA - METHANATOR PLANT	0.83	LB/TON	90.000	0.450	0.0455	0.090C	E6 TONS	11.1	5.0	15.2		
PETR - SERVICE STATIONS	0.85	LB/BARREL	0.229	0.034	0.0315	0.035C	E6 BBL	2950.	915.	1195.		
ORCHARD HEATERS	1.00	LB/TON	9.200	0.000	0.0335	0.0285	E6 TONS	60.0	19.8	10.8		
ETHYLENE OXIDE - AIR OXIDATION	0.87	LB/TON	392.000	3.920	0.0455	0.075C	E6 TONS	1.7	0.76	1.8		
DRY CLEANING	1.00	LB/TON	258.000	9.000	0.0505	0.018C	E6 TONS	2.4	1.2	0.46		
COKE OVENS - BY PRODUCT	0.93	LB/TON	5.900	0.060	0.0285	0.0105	E6 TONS	75.5	21.1	7.5		
INTERNAL COMB ENGS DIESEL DUALFUEL	0.58	LB/TON	31.300	30.300	0.0205	0.0285	E6 TONS	18.0	3.6	5.0		
PETROLEUM STRG CRD OIL WRKNG EXIST. NEW	0.85 0.85	LB/BARREL	0.071 0.048	0.048	0.0315	0.042C	E6 BBL	6000.	1860.	3054.		
PETRO. - TANKS - DO - BREATH	1.00	LB/BARREL	0.431	0.286	0.0315	0.032C	E6 BBL	643.	199.	238.		
BOILERS - 3-10 MM BTU/HR	0.25	LB/E6 BTU	0.042	0.000	0.0375	0.043C	E12 BTU	26471.	9794.	13857.		
VEGETABLE OIL PRODUCTION	0.92	LB/TON	37.900	15.200	0.0285	0.0275	E6 TONS	6.5	1.8	1.8		

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCBNT		GROWTH RATES DECIMAL/YR		CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	EMISSION E N	UNCBNT E U	P B	P C	UNITS/YR	A 1975	B 1985	
CHARCOAL											
CORE OVENS	0.85	LB/TON	438.000	4.400	438.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42
BOILERS >250 MM BTU/HR	0.93	LB/TON	10.500	1.050	10.500	0.028S	0.035S	E6 TONS	23.0	6.4	8.0
FET REF - VACUUM DIST.	0.58	LB/E6 BTU	0.019	0.000	0.019	0.050S	0.055C	E12 BTU	24011.	14006.	19836.
BOILERS 10-250 MM BTU/HR	0.85	LB/TON	0.130	0.000	0.130	0.031S	0.042C	E6 TONS	1846.	572.	945.
PETRLM STRG GASOLINE WRTNG EXIST.	0.32	LB/E6 BTU	0.045	0.000	0.045	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
NEW	0.25	LB/BARREL	0.071	0.012	0.116	0.031S	0.035C	E6 BBL	2950.	915.	1211.
GRAPHIC ARTS-GRAVURE	0.85		0.012								
BOILERS <0.3 MM BTU/HR	0.20	LB/TON	2300.000	2.300	2300.000	0.045S	0.050C	E6 TONS	0.12	0.053	0.074
WOOD PULPING KRAFT PRGCESS	0.30	LB/E6 BTU	0.019	0.000	0.019	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
GRAPHIC ARTS FLEXOGRAPHY	0.98	LB/TON	4.690	4.240	4.690	0.031S	0.012C	E6 TONS	34.0	10.5	4.3
NEW	0.80	LB/TON	4800.000	48.000	4800.000	0.045S	0.050C	E6 TONS	0.051	0.023	0.032
ASPHALT EATCHING	0.47	LB/TON	0.167	0.000	0.167	0.008S	0.050S	E6 TONS	1480.	118.	740.
PETRLM STRG JET FUEL BRTHNG EXIST.	1.00	LB/BARREL	1.000	0.650	1.400	0.031S	0.094C	E6 BBL	124.	38.4	181.
NEW	1.00		0.650								
AUTOMOBILE ASSEMBLY											
GRAPHIC ARTS - LETTERPRESS	0.91	LB/PRD UNIT	12.600	0.420	21.000	0.046S	0.029C	E6 PU	10.6	4.2	3.5
GRAPHIC ARTS - LITHOGRAPHY	0.80	LB/TON	1500.000	15.000	1500.000	0.045S	0.050C	E6 TONS	0.11	0.049	0.069
GRAPHIC ARTS - METAL DEGRATING	0.80	LB/TON	2500.000	28.000	2800.000	0.045S	0.050C	E6 TONS	0.063	0.028	0.040
DIRECT FIRING OF HEAT	0.80	LB/TON	3200.000	37.000	3700.000	0.045S	0.050C	E6 TONS	0.046	0.021	0.029
PETR. - TRANSFER - CRUDE	0.62	LB/TON	6136.000	2636.000	6136.000	0.050S	0.033S	E6 TONS	0.034	0.017	0.011
PETR. - TRANSFER - GAS	0.85	LB/BARREL	0.071	0.048	0.084	0.029S	0.042C	E6 BBL	1440.	418.	737.
PETRLM STRG AV GS BRTHNG EXIST.	0.85	LB/BARREL	0.071	0.012	0.116	0.042S	0.035C	E6 BBL	1560.	651.	632.
NEW	1.00	LB/BARREL	2.060	1.350	2.850	0.031S	0.094C	E6 BBL	37.0	11.5	53.9

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			UNCONT E	GROWTH RATES DECIMAL/YR			UNITS/YR	INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE F	EMISSION E	N		P	B	C		A 1975	B 1985	C 1985
PAINT	0.85	LB/TON	30.000	0.300		30.000	0.0675	0.026C	0.026C	E6 TONS	4.9	3.3	1.5
BEER	0.81	LB/TON	10.900	0.109		10.900	0.040S	0.070C	0.070C	E6 TONS	7.2	2.9	7.0
ACRYLONITRILE	0.90	LB/TON	91.000	0.165		330.000	0.045S	0.095C	0.095C	E6 TONS	0.83	0.37	1.2
FORMALDEHYDE	0.72	LB/TON	22.200	0.280		27.500	0.045S	0.094C	0.094C	E6 TONS	4.2	1.9	6.1
MUNICIPAL INCINERATOR	0.56	LB/TON	2.700	0.000		2.700	0.039S	0.046S	0.046S	E6 TONS	32.5	12.7	14.9
PETR. - TANKS - KER - BREATH	1.00	LB/BARREL	0.435	0.295		0.593	0.031S	0.000S	0.000S	E6 BBL	75.8	23.5	0.0
PHTHALIC ANHYDRIDE - 0-XYLENE	0.78	LB/TON	86.600	5.000		130.000	0.020S	0.079C	0.079C	E6 TONS	0.42	0.084	0.48
ETHYLENE DICHLORIDE	0.62	LB/TON	19.600	0.140		140.000	0.045S	0.090C	0.090C	E6 TONS	3.3	1.5	4.5
INDUSTRIAL COMMERCIAL INCINERATORS	0.38	LB/TON	2.880	0.000		2.880	0.039S	0.110C	0.110C	E6 TONS	32.6	12.7	60.0
POLYVINYL CHLORIDE	0.82	LB/TON	9.600	0.085		17.000	0.000S	0.078C	0.078C	E6 TONS	2.7	0.0055	3.1
PALEIC ANHYDRIDE BENZENE EX:O.	1.00	LB/TON	147.000	0.172		172.000	0.045S	0.090C	0.090C	E6 TONS	0.23	0.10	0.31
POLYETHYLENE - LOW DENSITY	0.88	LB/TON	4.200	0.250		25.000	0.006S	0.165C	0.165C	E6 TONS	4.8	0.29	17.5
PETROL STRG SPC NAP BRTHNG	1.00	LB/BARREL	1.340	1.300		2.850	0.031S	0.007C	0.007C	E6 BBL	18.2	5.6	1.3
EXIST. NEW.	1.00	LB/BARREL	1.300	0.054		0.116	0.031S	0.094C	0.094C	E6 BBL	276.	85.6	402.
PETROL STRG JET FUEL WRKING	0.85	LB/BARREL	0.090	0.500		50.000	0.000S	0.176C	0.176C	E6 TONS	1.9	0.0	7.6
EXIST. NEW.	0.85	LB/BARREL	0.054	0.679		67.900	0.067S	0.026C	0.026C	E6 TONS	1.3	0.86	0.38
POLYETHYLENE - HIGH DENSITY	1.00	LB/TON	7.400	2.400		240.000	0.045S	0.154C	0.154C	E6 TONS	0.58	0.26	1.9
VARNISH	0.85	LB/TON	34.900	0.870		2.020	0.029S	0.020S	0.020S	E6 TONS	8.4	2.5	1.7
SYNTHETIC RESINS ACRYLIC	0.87	LB/TON	36.000	0.078		7.750	0.028S	0.043C	0.043C	E6 TONS	2.6	0.74	1.4
MINERAL WOOL	0.82	LB/TON	2.020	12.000		120.000	0.045S	0.050C	0.050C	E6 TONS	0.43	0.19	0.27
DEEP FAT FRYING	0.81	LB/TON	6.240	0.078		7.750	0.028S	0.043C	0.043C	E6 TONS	2.6	0.74	1.4
PRINTING INK	0.83	LB/TON	48.000	12.000		120.000	0.045S	0.050C	0.050C	E6 TONS	0.43	0.19	0.27

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION/ UNITS	EMISSION RATES			GROWTH RATES			CAPACITY/PRODUCTION			C 1985
			ALLOWABLE E S	UNCENT E U	N	P P	B	C	A 1975	B 1985		
POLYSTYRENE	0.88	LB/TON	4.200	0.120	0.120	0.0055	0.0055	0.075C	2.3	0.12		2.5
FLYASH-VEENEER	0.95	LB/TON	0.001	0.000	0.000	0.050S	0.050S	0.025C	22600.	11300.		6330.
STYRENE - BUTADIENE RUBBER	0.75	LB/TON	4.200	3.100	3.100	0.003S	0.003S	0.020C	2.3	0.070		0.51
PETR. - TRANSFER - JETFUEL	0.85	LB/BARREL	0.090	0.054	0.054	0.042S	0.042S	0.094C	146.	60.9		213.
SYNTHETIC RESINS PHENOLIC	0.80	LB/TON	5.760	0.075	0.075	0.005S	0.005S	0.070C	1.1	0.055		1.1
SYNTHETIC FIBERS NYLON	0.72	LB/TON	7.000	0.350	0.350	0.045S	0.045S	0.127C	1.7	0.76		2.9
PETROLEUM REFINERY GAS CO	0.85	LB/E6 BTU	33.000	0.000	0.000	0.031S	0.031S	0.042C	0.23	0.070		0.12
ASPHALT BLOWING	0.90	LB/TON	2.500	0.025	0.025	0.042S	0.042S	0.025S	3.1	1.3		0.79
PETROLEUM STRG AV GS WCKNG	0.85	LB/BARREL	0.090	0.055	0.055	0.031S	0.031S	0.094C	67.0	20.8		97.5
EXIST. NEW	0.85	LB/BARREL	0.055									
SYNTHETIC RESINS UREA-MELANINE	0.80	LB/TON	5.760	0.075	0.075	0.005S	0.005S	0.073C	0.74	0.037		0.76
WHISKEY	0.95	LB/PRD UNIT	2.760	0.055	0.055	0.032S	0.032S	0.060S	1.3	0.42		0.78
SYNTHETIC RESINS ABS-SAN	0.80	LB/TON	5.760	0.075	0.075	0.005S	0.005S	0.072C	0.47	0.023		0.47
PETROLEUM STRG SPC NAP WCKNG	0.85	LB/BARREL	0.090	0.056	0.056	0.031S	0.031S	0.007C	33.0	10.2		2.4
EXIST. NEW	0.85	LB/BARREL	0.056									
PETR. - TRANSFER - AVGAS	0.85	LB/BARREL	0.090	0.055	0.055	0.042S	0.042S	0.094C	35.6	14.8		51.8
SYNTHETIC FIBERS ACETATE	0.93	LB/TON	7.000	0.350	0.350	0.045S	0.045S	0.028C	0.43	0.19		0.14
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.073	0.000	0.000	0.033S	0.033S	0.027S	35.7	11.7		9.6
TEXTILE - HEAT SETTING	0.86	LB/TON	3.054	1.486	1.486	0.042S	0.042S	0.081C	0.79	0.33		0.93
FIBERGLASS MANUF - WBSL	0.70	LB/TON	3.390	0.102	0.102	0.063S	0.063S	0.042C	1.1	0.68		0.55
COFFEE ROASTING	0.85	LB/TON	1.100	0.005	0.005	0.040S	0.040S	0.000S	1.5	0.62		0.0
PETR. - TRANSFER - SP. NAP.	0.85	LB/BARREL	0.090	0.056	0.056	0.042S	0.042S	0.007C	17.7	7.4		1.3

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES			CAPACITY/PRODUCTION		
			ALLOWABLE E S	E N	UNCONT E U	DECIMAL/YR P d	P C	UNITS/YR	A 1975	B 1985	C 1985
POLYPROPYLENE	0.78	LB/TON	0.590	0.003	0.700	0.003S	0.150C	E6 TONS	1.6	0.048	4.9
TEXTILE - CARPET MFG	0.86	LB/TON	0.720	0.040	0.800	0.042S	0.053C	E6 TONS	1.8	0.76	1.2
SMOKED MEAT	0.81	LB/TON	0.350	0.150	0.350	0.040S	0.017C	E6 TONS	3.6	1.4	0.66
TEXTILE - TEXTURIZING	0.86	LB/TON	0.920	0.230	4.600	0.042S	0.023C	E6 TONS	0.87	0.36	0.22
SYNTHETIC RESINS ALKYD	0.68	LB/TON	1.710	0.017	1.710	0.045S	0.015C	E6 TONS	0.53	0.24	0.085
SEC ZINC SWEAT	0.82	LB/TON	2.310	0.003	2.810	0.035S	0.039C	E6 TONS	0.20	0.069	0.091
LEAD ACID BATTERY PLANTS	0.76	LB/PRD UNIT	0.007	0.000	0.009	0.040S	0.050C	E6 PU	80.0	32.0	50.3
AUTOBODY INCINERATORS	0.90	LB/PRD UNIT	1.000	0.460	1.000	0.039S	0.280S	E6 PU	0.29	0.11	0.82
PATHOLOGICAL INCINERATOR	0.34	LB/TON	3.800	0.040	3.800	0.039S	0.026C	E6 TONS	0.13	0.051	0.038
SEC MAGNESIUM	0.82	LB/TON	3.390	0.003	3.390	0.035S	0.016C	E6 TONS	0.017	0.0061	0.0030

SUMMARY OF OUTPUT VARIABLES F9R MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - T S N 1935	1 - E / E N S
	1000 TONS/YEAR			T S 1985	T N 1985		
	T A 1975	T E 1985	T UE 1985				
INDUSTRIAL SURFACE COATING							
PET REF - MISC PT SOURCE	1899.	1101.	1351.	4025.	1460.	2560000.	0.877
PETRLM STRG CRD OIL BRTHNG	1230.	848.	848.	1859.	1354.	505000.	0.500
DEGREASING	674.	465.	585.	842.	842.	0.0	-0.000
PETR. - REFUELING	767.	445.	580.	1051.	524.	526000.	0.870
INTERNAL COMBUSTION ENGS SPKIGN	632.	436.	436.	888.	504.	383000.	0.849
PETRLM STRG GASOLINE BRTHNG	467.	373.	373.	873.	373.	499000.	1.000
CARBON BLACK - FURNACE PROCESS	355.	245.	469.	295.	295.	0.0	0.000
AMMONIA - REGENERATOR & CO ABSORBER	436.	240.	240.	558.	240.	318000.	0.999
AMMONIA - METHANATOR PLANT	415.	228.	228.	981.	232.	749000.	0.995
PETR - SERVICE STATIONS	415.	228.	228.	981.	232.	749000.	0.995
ORCHARD HEATERS	287.	198.	327.	403.	229.	174000.	0.852
ETHYLENE OXIDE - AIR OXIDATION	276.	185.	185.	353.	185.	168000.	1.000
DRY CLEANING	290.	159.	159.	597.	164.	433000.	0.990
COKE OVENS - BY PRODUCT	304.	152.	152.	364.	160.	204000.	0.965
INTERNAL COMB ENGS DIESEL DUALFUEL	207.	149.	149.	228.	150.	77900.	0.990
PETRLM STRG CRD OIL BRTHNG	163.	130.	130.	209.	206.	2500.	0.032
PETR0. - TANKS - DO - BREATH	181.	125.	148.	225.	225.	0.0	0.000
BOILERS - 3-10 MM BTU/HR	139.	95.6	132.	190.	158.	31700.	0.336
VEGETABLE OIL PRODUCTION	139.	87.6	87.6	212.	87.6	124000.	1.000
	114.	81.8	82.1	144.	107.	37400.	0.599

SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

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SUMMARY OF OUTPUT VARIABLES FOR MODEL IV

SOURCE	EMISSIONS					T N 1985	T - T S N 1985	I - E / E N S
	1000 TONS/YEAR			T S 1985				
	T U 1985	T A 1975	T E 1985					
PAIN								
BEER	81.5	62.9	20.9	20.9	81.5	21.5	59900.	0.990
ACRYLONITRILE	62.5	31.8	19.1	19.1	62.5	19.5	43000.	0.990
FORMALDEHYDE	305.	34.0	18.7	67.8	84.2	18.8	65400.	0.998
* MUNICIPAL INCINERATOR	102.	33.6	18.5	22.9	82.6	19.3	63300.	0.987
PETR. - TANKS - KER - BREATH	35.9	24.6	15.0	15.0	35.9	15.0	20800.	1.000
PHTHALIC ANHYDRIDE - 8-XYLENE	22.5	16.5	11.4	15.5	16.5	14.8	1600.	0.322
ETHYLENE DICHLORIDE	45.4	14.2	11.3	17.0	30.3	12.4	17800.	0.942
* INDUSTRIAL COMMERCIAL INCINERATORS	339.	20.1	11.0	78.8	47.5	11.3	36100.	0.993
POLYVINYL CHLORIDE	50.7	17.8	10.9	10.9	50.7	10.9	39700.	1.000
MALEIC ANHYDRIDE BENZENE OXID.	40.5	10.8	10.8	19.1	22.9	10.9	11900.	0.991
POLYETHYLENE - LOW DENSITY	46.8	16.9	9.3	10.9	40.0	9.3	30600.	0.939
PETRLM STRG SPC NAP BRTHNG	246.	9.0	8.4	50.1	41.3	10.4	30800.	0.940
PETRLM STRG JET FUEL WRKING	27.8	12.2	8.4	17.9	12.9	12.9	0.0	-0.000
POLYETHYLENE - HIGH DENSITY	33.4	10.6	7.3	9.4	18.5	18.5	0.0	0.000
VARNISH	238.	7.0	7.0	47.0	35.2	8.9	26300.	0.932
SYNTHETIC RESINS ACRYLIC	48.4	19.2	6.4	12.4	24.9	6.7	18100.	0.981
MINERAL WOOL	255.	9.1	5.0	33.5	38.2	7.2	31000.	0.933
DEEP FAT FRYING	8.4	7.0	4.9	4.9	8.4	6.4	1900.	0.569
PRINTING INK	12.6	6.7	4.8	6.0	10.2	4.9	5200.	0.988
	34.6	8.5	4.7	11.7	13.9	7.0	6800.	0.750

HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				T S N 1985	T S N 1985	T S N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985				
POLYSTYRENE	24.9	4.3	4.1	11.5	9.0	4.3	4600.	0.971		
PLYWOOD-VENEER	10.3	8.1	4.0	4.0	10.3	4.1	6200.	0.990		
STYRENE - BUTADIENE RUBBER	4.5	3.7	3.6	3.6	4.5	4.3	240.	0.262		
PETR. - TRANSFER - JETFUEL	17.7	5.6	3.3	4.2	13.7	9.5	4100.	0.400		
SYNTHETIC RESINS PHENOLIC	6.5	2.5	2.4	3.1	5.0	2.4	2500.	0.987		
SYNTHETIC FIBERS NYLON	14.2	4.3	2.4	2.4	14.2	2.9	11200.	0.950		
PETRLM REFRNRY PRS GAS CO	4.8	3.2	2.2	2.2	4.8	2.2	2600.	1.000		
ASPHALT BLOWING	4.4	3.5	2.1	2.1	4.4	2.1	2300.	0.390		
PETRLM STRG AV GS WRKNG	3.1	2.6	1.8	2.3	4.5	4.5	0.0	0.000		
SYNTHETIC RESINS UREA-MELANINE	4.5	1.7	1.6	2.1	3.4	1.6	1800.	0.987		
WHISKEY	2.7	1.7	1.2	1.2	2.7	1.2	1500.	0.980		
SYNTHETIC RESINS ABS-SAN	2.8	1.1	1.0	1.3	2.2	1.0	1100.	0.987		
PETRLM STRG STC NAP WRKNG	1.7	1.3	0.87	1.1	1.2	1.2	0.0	0.000		
PETR. - TRANSFER - AVGAS	4.3	1.4	0.79	1.0	3.3	2.4	990.	0.389		
SYNTHETIC FIBERS ACETATE	1.2	1.4	0.77	0.77	1.8	0.82	1000.	0.950		
* BRICK & RELATED CLAY PRODUCTS	1.3	1.0	0.69	0.69	1.3	0.69	620.	1.000		
TEXTILE - HEAT SETTING	7.6	1.0	0.61	2.0	2.3	1.4	850.	0.513		
FIBERGLASS MANUF - WOOD	1.9	1.3	0.48	0.48	1.9	0.53	1400.	0.970		
COFFEE ROASTING	0.72	0.72	0.43	0.43	0.72	0.44	290.	0.995		
PETR. - TRANSFER - SP. NAP.	0.94	0.68	0.39	0.51	0.73	0.60	120.	0.378		

HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS							TENS/YEAR T - T S N 1985	I - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985			
POLYPROPYLENE	1.8	0.37	0.36	0.42	1.5	0.36	1100.	0.994	
TEXTILE - CARPET MFG	1.1	0.57	0.33	0.37	0.95	0.37	580.	0.944	
SMOKED MEAT	0.60	0.51	0.31	0.31	0.60	0.43	170.	0.571	
TEXTILE - TEXTURIZING	2.2	0.34	0.20	1.00	0.43	0.26	170.	0.750	
SYNTHETIC RESINS ALKYL	0.36	0.31	0.17	0.17	0.36	0.17	180.	0.390	
SEC ZINC SWEAT	0.33	0.23	0.15	0.15	0.33	0.15	180.	0.999	
LEAD ACID BATTERY PLANTS	0.45	0.21	0.12	0.16	0.34	0.13	200.	0.985	
AUTOBODY INCINERATORS	0.50	0.13	0.080	0.080	0.50	0.27	220.	0.540	
PATHOLOGICAL INCINERATOR	0.11	0.084	0.051	0.051	0.11	0.052	50.0	0.989	
SEC MAGNESIUM	0.029	0.024	0.016	0.016	0.029	0.016	10.0	0.999	

TUE

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	UNCONT E U	GROWTH RATES DECIMAL/YR P B C	UNITS/YR	CAPACITY/PRODUCTION		
							A	B	C
							1975	1985	1985
INDUSTRIAL SURFACE COATING									
PET REF - MISC PT SOURCE	0.82 LB/TON		5.340	0.655	0.0425	0.078C	867.	364.	971.
PETRLM STRG CRD OIL BRTHNG	0.85 LB/TON		0.586	0.293	0.0315	0.042C	4937.	1530.	2527.
EXIST. NEW.	1.00 LB/BARREL		2.290 1.560	1.560	0.0315	0.042C	589.	183.	300.
DEGREASING	0.82 LB/TON		1.150	0.250	0.0425	0.032C	1626.	683.	602.
PETRLM STRG GASOLINE BRTHNG	1.00 LB/BARREL		1.490	0.290	0.0315	0.035C	477.	148.	196.
EXIST. NEW.	1.00		0.290						
PETR. - REFUELING	0.85 LB/BARREL		0.504	0.076	0.0315	0.035C	2950.	915.	1195.
INTERNAL COMBUSTION ENGS SPKIGN	0.58 LB/TON		56.000	0.000	0.0205	0.0875	28.7	5.7	25.0
PETR - SERVICE STATIONS	0.85 LB/BARREL		0.229	0.034	0.0315	0.035C	2950.	915.	1195.
CARBON BLACK - FURNACE PROCESS	0.77 LB/TON		570.000	0.570	0.0455	0.025C	2.0	0.89	0.56
AMMONIA - METHANATOR PLANT	0.83 LB/TON		90.000	0.450	0.0455	0.030C	11.1	5.0	15.2
AMMONIA - REGENERATOR & CO ABSORBER	0.83 LB/TON		90.000	0.450	0.0455	0.030C	11.1	5.0	15.2
BRCHARD HEATERS	1.00 LB/TON		9.200	0.000	0.0335	0.0285	60.0	19.8	16.8
ETHYLENE OXIDE - AIR OXIDATION	0.87 LB/TON		392.000	3.320	0.0455	0.075C	1.7	0.76	1.8
DRY CLEANING	1.00 LB/TON		258.000	9.000	0.0505	0.018C	2.4	1.2	0.46
COKE OVENS - BY PRODUCT	0.93 LB/TON		5.900	0.060	0.0285	0.0105	75.5	21.1	7.5
PETRLM STRG CRD OIL WRKNG	0.85 LB/BARREL		0.071	0.048	0.0315	0.042C	6000.	1860.	3054.
EXIST. NEW.	0.85		0.048						
PETR. - TANKS - DR - BREATH	1.00 LB/BARREL		0.431	0.286	0.0315	0.032C	643.	199.	238.
INTERNAL COMB ENGS DIESEL DUALFUEL	0.58 LB/TON		31.300	30.300	0.0205	0.0285	18.0	3.6	5.0
PETRLM STRG GASOLINE WRKNG	0.85 LB/BARREL		0.071	0.012	0.0315	0.035C	2950.	915.	1211.
EXIST. NEW.	0.85		0.012						

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES		UNITS/YR	CAPACITY/PRODUCTION		
			ALLOWABLE F S	E N	UNCENT E U	P U	C	A 1975	B 1985	C 1985
BAILERS 3-10 MM BTU/HR	0.25	LB/E6 BTU	0.042	0.000	0.042	0.037S	0.043C	E12 BTU	26471.	13857.
VEGETABLE OIL PRODUCTION	0.92	LB/TON	37.900	15.200	38.000	0.028S	0.027S	E6 TONS	6.5	1.8
CHARCOAL	0.85	LB/TON	438.000	4.400	438.000	0.045S	0.043C	E6 TONS	0.79	0.42
CORE OVENS	0.93	LB/TON	10.500	1.050	10.500	0.028S	0.035S	E6 TONS	23.0	8.0
ETHYLENE DICHLORIDE	0.62	LB/TON	19.600	0.140	140.000	0.045S	0.090C	E6 TONS	3.3	4.5
BAILERS >250 MM BTU/HR	0.58	LB/E6 BTU	0.019	0.000	0.019	0.050S	0.055C	E12 BTU	28011.	19836.
PET REF - VACUUM DIST.	0.85	LB/TON	0.130	0.000	0.130	0.031S	0.042C	E6 TONS	1846.	945.
BAILERS 10-250 MM BTU/HR	0.32	LB/E6 BTU	0.045	0.000	0.045	0.050S	0.014C	E12 BTU	19534.	2914.
ACRYLONITRILE	0.90	LB/TON	91.000	0.165	330.000	0.045S	0.095C	E6 TONS	0.83	1.2
AUTOMOBILE ASSEMBLY	0.91	LB/PPD UNIT	12.600	0.420	21.000	0.040S	0.029C	E6 PU	10.6	3.5
PETROL STRG JET FUEL EXIST. NEW.	1.00 1.00	LB/BARREL	1.000 0.650	0.650	1.400	0.031S	0.094C	E6 BBL	124.	181.
GRAPHIC ARTS-GRAVURE	0.80	LB/TON	2300.000	2.300	2300.000	0.045S	0.050C	E6 TONS	0.12	0.074
BAILERS <3 MM BTU/HR	0.30	LB/E6 BTU	0.019	0.000	0.019	0.020S	0.029C	E12 BTU	24572.	8131.
WOOD PULPING KRAFT PROCESS	0.98	LB/TON	4.690	4.240	4.690	0.031S	0.012C	E6 TONS	34.0	4.3
GRAPHIC ARTS FLEXOGRAPHY	0.80	LB/TON	4800.000	48.000	4800.000	0.045S	0.050C	E6 TONS	0.051	0.032
ASPHALT BATCHING	0.47	LB/TON	0.167	0.000	0.167	0.008S	0.050S	E6 TONS	1480.	740.
POLYETHYLENE - LOW DENSITY	0.88	LB/TON	4.200	0.250	25.000	0.006S	0.165C	E6 TONS	4.8	17.5
POLYETHYLENE - HIGH DENSITY	1.00	LB/TON	7.400	0.500	50.000	0.000S	0.176C	E6 TONS	1.9	7.6
PETR. - TRANSFER - GAS	0.85	LB/BARREL	0.071	0.012	0.116	0.042S	0.035C	E6 BBL	1560.	632.
GRAPHIC ARTS - LITHOGRAPHY	0.80	LB/TON	2500.000	28.000	2800.000	0.045S	0.050C	E6 TONS	0.063	0.040
GRAPHIC ARTS - METAL DECATING	0.80	LB/TON	3200.000	37.000	3700.000	0.045S	0.050C	E6 TONS	0.046	0.029

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION			C 1985
			ALLOWABLE E S	E N	UNCONT E U	P B	P C	UNITS/YR	A 1975	B 1985		
PETR. - TRANSFER - CRUDE												
PETRLM STRG AV GS BRTHNG	0.85	LB/BARREL	0.071	0.048	0.084	0.029S	0.042C	E6 BBL	1440.	418.	737.	
EXIST.	1.00	LB/BARREL	2.060	1.350	2.850	0.031S	0.094C	E6 BBL	37.0	11.5	53.9	
NEW	1.00		1.350									
GRAPHIC ARTS - LETTERPRESS												
0.80	LB/TON	1500.000	15.000		1500.000	0.045S	0.050C	E6 TONS	0.11	0.049	0.065	
SYNTHETIC RESINS ACRYLIC	0.87	LB/TON	36.000	2.400	240.000	0.045S	0.154C	E6 TONS	0.58	0.26	1.9	
DIRECT FIRING OF HEAT	0.62	LB/TON	6136.000	2636.000	6136.000	0.050S	0.033S	E6 TONS	0.034	0.017	0.011	
FORMALDEHYDE	0.72	LB/TON	22.200	0.280	27.500	0.045S	0.094C	E6 TONS	4.2	1.9	6.1	
PAINT	0.85	LB/TON	30.000	0.300	30.000	0.067S	0.026C	E6 TONS	4.9	3.3	1.5	
BEER	0.81	LB/TON	10.900	0.109	10.900	0.040S	0.070C	E6 TONS	7.2	2.9	7.0	
POLYVINYL CHLORIDE	0.82	LB/TON	9.600	0.085	17.000	0.000S	0.078C	E6 TONS	2.7	0.0055	3.1	
PETRLM STRG SPC NAP BRTHNG	1.00	LB/BARREL	1.340	1.300	2.850	0.031S	0.007C	E6 BBL	18.2	5.6	1.3	
EXIST.	1.00		1.300									
NEW	1.00											
PHTHALIC ANHYDRIDE - 9-XYLENE	0.78	LB/TON	86.600	5.000	130.000	0.020S	0.079C	E6 TONS	0.42	0.084	0.48	
PETR. - TANKS - KER - BREATH	1.00	LB/BARREL	0.435	0.295	0.593	0.031S	0.000S	E6 BBL	75.8	23.5	0.0	
MUNICIPAL INCINERATOR	0.56	LB/TON	2.700	0.000	2.700	0.039S	0.046S	E6 TONS	32.5	12.7	14.9	
VARNISH	0.85	LB/TON	34.900	0.679	67.900	0.067S	0.026C	E6 TONS	1.3	0.86	0.38	
PRINTING INK	0.83	LB/TON	48.000	12.000	120.000	0.045S	0.050C	E6 TONS	0.43	0.19	0.27	
POLYSTYRENE	0.88	LB/TON	4.200	0.120	11.700	0.005S	0.075C	E6 TONS	2.3	0.12	2.5	
INDUSTRIAL COMMERCIAL INCINERATORS	0.38	LB/TON	2.880	0.000	2.830	0.039S	0.110C	E6 TONS	32.6	12.7	60.0	
MALEIC ANHYDRIDE BENZENE OXID.	1.00	LB/TON	147.000	0.172	172.000	0.045S	0.090C	E6 TONS	0.23	0.10	0.31	
PETRLM STRG JET FUEL WRKING	0.85	LB/BARREL	0.090	0.054	0.116	0.031S	0.094C	E6 BBL	276.	85.6	402.	
EXIST.	0.85		0.054									
NEW	0.85											
DEEP FAT FRYING	0.81	LB/TON	6.240	0.078	7.750	0.028S	0.043C	E6 TONS	2.6	0.74	1.4	

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES		UNITS/YR	CAPACITY/PRODUCTION		C 1985
			ALLOWABLE F	EMISSION E		P	B		A	B	
MINERAL WOOD											
PETR. - TRANSFER - JETFUEL	0.82	LB/TON	2.020	0.870	2.020	0.0235	0.0205	E6 TONS	8.4	2.5	1.7
PLYWOOD-VENEER	0.85	LB/BARREL	0.090	0.054	0.116	0.0425	0.034C	E6 BBL	146.	60.9	213.
STYRENE - BUTADIENE RUBBER	0.95	LB/TON	0.001	0.000	0.001	0.0505	0.025C	E6 TONS	22600.	11300.	6330.
SYNTHETIC RESINS PHENOLIC	0.75	LB/TON	4.200	3.100	4.200	0.0035	0.020C	E6 TONS	2.3	0.070	0.51
SYNTHETIC FIBERS NYLON	0.80	LB/TON	5.760	0.075	7.500	0.0055	0.070C	E6 TONS	1.1	0.055	1.1
PETRLM STRG AV GS WRKNG	0.72	LB/TON	7.000	0.350	7.000	0.0455	0.127C	E6 TONS	1.7	0.76	3.9
EXIST. NEW.	0.85	LB/BARREL	0.090	0.055	0.116	0.0315	0.034C	E6 BBL	67.0	20.8	97.5
PETRLM REFRNY PRS GAS C8	0.85	LB/E6 BTU	33.000	0.000	33.000	0.0315	0.042C	E12 BTU	0.23	0.070	0.12
SYNTHETIC RESINS UREA-MELANINE	0.80	LB/TON	5.760	0.075	7.500	0.0055	0.073C	E6 TONS	0.74	0.037	0.76
ASPHALT BLOWING	0.90	LB/TON	2.500	0.025	2.500	0.0425	0.0255	E6 TONS	3.1	1.3	0.79
TEXTILE - HEAT SETTING	0.86	LB/TON	3.054	1.486	10.180	0.0425	0.081C	E6 TONS	0.79	0.33	0.93
SYNTHETIC RESINS ABS-SAN	0.80	LB/TON	5.760	0.075	7.500	0.0055	0.072C	E6 TONS	0.47	0.023	0.47
WHISKEY	0.95	LB/PRD UNT	2.760	0.055	2.760	0.0325	0.0605	E6 PU	1.3	0.42	0.78
PETRLM STRG SPC NAP WRKNG	0.95	LB/BARREL	0.090	0.056	0.116	0.0315	0.007C	E6 BBL	33.0	10.2	2.4
EXIST. NEW.	0.85	LB/BARREL	0.090	0.056	0.116	0.0315	0.007C	E6 BBL	33.0	10.2	2.4
PETR. - TRANSFER - AVGAS	0.85	LB/BARREL	0.090	0.055	0.116	0.0425	0.034C	E6 BBL	35.6	14.8	51.8
TEXTILE - TEXTURIZING	0.86	LB/TON	0.920	0.230	4.600	0.0425	0.023C	E6 TONS	0.87	0.36	0.22
SYNTHETIC FIBERS ACETATE	0.93	LB/TON	7.000	0.350	7.000	0.0455	0.028C	E6 TONS	0.43	0.19	0.14
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.073	0.000	0.073	0.0335	0.0275	E6 TONS	35.7	11.8	9.6
PETR. - TRANSFER - SP. NAP.	0.85	LB/BARREL	0.090	0.056	0.116	0.0425	0.007C	E6 BBL	17.7	7.4	1.3
FIBERGLASS MANUF - W86L	0.70	LB/TON	3.390	0.102	3.390	0.0635	0.042C	E6 TONS	1.1	0.68	0.55

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCENT E	GROWTH RATES DECIMAL/YR			UNITS/YR	CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	EMISSION E N		P	U	P		A 1975	B 1985	
COFFEE ROASTING	0.85	LB/TON	1.100	0.005	1.100	0.040S	0.000S	0.000S	E6 TONS	1.5	0.62	0.0
POLYPROPYLENE	0.78	LB/TON	0.590	0.003	0.700	0.003S	0.150C	0.150C	E6 TONS	1.6	0.048	4.9
TEXTILE - CARPET MFG	0.86	LB/TON	0.720	0.040	0.800	0.042S	0.053C	0.053C	E6 TONS	1.8	0.76	1.2
SPARKED MEAT	0.81	LB/TON	0.350	0.150	0.350	0.040S	0.017C	0.017C	E6 TONS	3.6	1.4	0.66
SYNTHETIC RESINS ALKYL	0.68	LB/TON	1.710	0.017	1.710	0.045S	0.015C	0.015C	E6 TONS	0.53	0.24	0.085
LEAD ACID BATTERY PLANTS	0.76	LB/PRD UNIT	0.007	0.000	0.009	0.040S	0.050C	0.050C	E6 PU	80.0	32.0	50.3
SEC ZINC SWEAT	0.82	LB/TON	2.810	0.003	2.810	0.035S	0.033C	0.033C	E6 TONS	0.20	0.069	0.091
AUTOBODY INCINERATORS	0.90	LB/PRD UNIT	1.000	0.460	1.000	0.039S	0.280S	0.280S	E6 PU	0.29	0.11	0.82
PATHOLOGICAL INCINERATOR	0.34	LB/TON	3.800	0.040	3.800	0.039S	0.026C	0.026C	E6 TONS	0.13	0.051	0.038
SEC MAGNESIUM	0.82	LB/TON	3.390	0.003	3.390	0.035S	0.016C	0.016C	E6 TONS	0.017	0.0061	0.0030

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS			T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985			
INDUSTRIAL SURFACE COATING								
PET REF - MISC PT SOURCE	4937.	1899.	1101.	1351.	4025.	1460.	2560000.	0.877
PETRLM STRG CRD OIL BRTHNG	1859.	1230.	848.	848.	1859.	1354.	505000.	0.500
DEGREASING	1280.	674.	465.	585.	842.	842.	0.0	-0.000
PETRLM STRG GASOLINE BRTHNG	1370.	767.	445.	580.	1051.	524.	526000.	0.870
PETR. - REFUELING	959.	355.	245.	469.	295.	295.	0.0	0.000
* INTERNAL COMBUSTION ENGS SPKIGN	888.	632.	436.	436.	888.	504.	383000.	0.849
PETR - SERVICE STATIONS	873.	467.	373.	373.	873.	373.	499000.	1.000
CARBON BLACK - FURNACE PROCESS	666.	287.	198.	327.	403.	229.	174000.	0.852
AMMONIA - METHANATOR PLANT	558.	436.	240.	240.	558.	240.	318000.	0.999
AMMONIA - REGENERATOR & CO ABSORBER	981.	415.	228.	228.	981.	232.	749000.	0.995
* ORCHARD HEATERS	981.	415.	228.	228.	981.	232.	749000.	0.995
ETHYLENE OXIDE - AIR OXIDATION	353.	276.	185.	185.	353.	185.	168000.	1.000
DRY CLEANING	597.	290.	159.	159.	597.	164.	433000.	0.990
COKE OVENS - BY PRODUCT	364.	304.	152.	152.	364.	160.	204000.	0.965
PETRLM STRG CRD OIL BRTHNG	225.	207.	149.	149.	228.	150.	77900.	0.990
PETRO. - TANKS - D8 - BREATH	323.	181.	125.	148.	225.	225.	0.0	0.000
INTERNAL COMB ENGS DIESEL DUALFUEL	261.	139.	95.6	132.	190.	158.	31700.	0.336
PETRLM STRG GASOLINE BRTHNG	209.	163.	130.	130.	209.	206.	2500.	0.032
* BOILERS .3-10 MM BTU/HR	205.	89.0	61.4	100.	72.3	72.3	0.0	0.000
	212.	139.	87.6	87.6	212.	87.6	124000.	1.000

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS							TENS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985			
VEGETABLE OIL PRODUCTION									
CHARCOAL	145.	114.	81.8	82.1	144.	107.	37400.	0.599	
CORE OVENS	225.	148.	81.4	81.4	225.	82.8	142000.	0.990	
ETHYLENE DICHLORIDE	152.	112.	80.9	80.9	152.	87.9	63600.	0.900	
* BOILERS >250 MM. BTU/HR	339.	201.	11.0	78.8	47.5	11.3	36100.	0.993	
PET REF - VACUUM DIST.	264.	154.	77.2	77.2	264.	77.2	186000.	1.000	
* BOILERS 10-250 MM BTU/HR	154.	102.	70.4	70.4	154.	70.4	83700.	0.999	
ACRYLONITRILE	162.	141.	70.3	70.3	162.	70.3	91200.	1.000	
AUTOMOBILE ASSEMBLY	305.	34.0	18.7	67.8	84.2	18.8	65400.	0.998	
PETRLM STRG JET FUEL BRTNG	135.	60.8	36.5	60.8	80.9	37.9	42900.	0.967	
GRAPHIC ARTS-GRAVURE	213.	62.0	42.8	59.9	114.	114.	0.0	0.000	
* BOILERS <3 MM BTU/HR	175.	104.	59.2	59.2	175.	59.3	116000.	0.999	
W88D PULPING KRAFT PRCESS	93.2	70.0	56.0	56.0	93.2	56.0	37100.	1.000	
GRAPHIC ARTS FLEXOGRAPHY	88.0	78.1	53.9	53.9	88.0	84.8	3200.	0.096	
* ASPHALT BATCHING	159.	97.9	53.9	53.9	159.	54.9	104000.	0.990	
POLYETHYLENE - LOW DENSITY	87.1	58.1	53.4	53.4	87.1	53.4	33600.	1.000	
POLYETHYLENE - HIGH DENSITY	246.	9.0	8.4	50.1	41.3	10.4	30800.	0.940	
PETR. - TRANSFER - GAS	238.	7.0	7.0	47.0	35.2	8.9	26300.	0.932	
GRAPHIC ARTS - LITHOGRAPHY	108.	47.1	27.4	44.8	66.1	33.8	32300.	0.837	
GRAPHIC ARTS - METAL DECORATING	115.	63.0	34.6	38.8	103.	35.4	67200.	0.989	
	111.	58.9	32.4	37.4	95.9	33.1	62700.	0.988	

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS				T N 1985	TONS/YEAR T S N 1985	1 - E / E N S
	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985			
PETR. - TRANSFER - CRUDE							
PETRLM STRG AV GS BRTHNG	77.7	43.5	30.9	36.5	65.7	54.4	11200.
GRAPHIC ARTS - LETTERPRESS	129.	38.1	26.3	36.4	70.4	70.4	0.0
SYNTHETIC RESINS ACRYLIC	108.	66.0	36.3	36.3	108.	37.0	70400.
DIRECT FIRING OF HEAT	255.	9.1	5.0	33.5	38.2	7.2	31000.
FORMALDEHYDE	85.3	64.1	32.1	32.1	85.3	54.9	30300.
PAINT	102.	33.6	18.5	22.9	82.6	19.3	63300.
BEER	81.5	62.9	20.9	20.9	81.5	21.5	59900.
POLYVINYL CHLORIDE	62.5	31.8	19.1	19.1	62.5	19.5	43000.
PETRLM STRG SPC NAP BRTHNG	40.5	10.8	10.8	19.1	22.9	10.9	11900.
PTHALIC ANHYDRIDE - 8-XYLENE	27.8	12.2	8.4	17.9	12.9	12.9	0.0
PETR. - TANKS - KER - BREATH	45.4	14.2	11.3	17.0	30.3	12.4	17800.
MUNICIPAL INCINERATOR	22.5	16.5	11.4	15.5	16.5	14.8	1600.
VARNISH	35.9	24.6	15.0	15.0	35.9	15.0	20800.
PRINTING INK	48.4	19.2	6.4	12.4	24.9	6.7	18100.
POLYSTYRENE	34.6	8.5	4.7	11.7	13.9	7.0	6800.
INDUSTRIAL COMMERCIAL INCINERATORS	24.9	4.3	4.1	11.5	9.0	4.3	4600.
PALEIC ANHYDRIDE BENZENE OXID.	50.7	17.8	10.9	10.9	50.7	10.9	39700.
PETRLM STRG JET FUEL BRTHNG	46.8	16.9	9.3	10.9	40.0	9.3	30600.
DEEP FAT FRYING	33.4	10.6	7.3	9.4	18.5	18.5	0.0
	12.6	6.7	4.8	6.0	10.2	4.9	5200.

HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				T S 1985	T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985				
MINERAL WOOL										
PETR. - TRANSFER - JETFUEL	8.4 17.7	7.0	4.9	4.9	8.4	6.4		1900.	0.569	
PLYWOOD-VENEER		5.6	3.3	4.2	13.7	9.5		4100.	0.400	
STYRENE - BUTADIENE RUBBER	10.3 4.5	8.1	4.0	4.0	10.3	4.1		6200.	0.990	
SYNTHETIC RESINS PHENOLIC	6.5	3.7	3.6	3.6	4.5	4.3		240.	0.262	
SYNTHETIC FIBERS NYLON		2.5	2.4	3.1	5.0	2.4		2500.	0.987	
PETRLM STRG AV GS WRKNG	14.2	4.3	2.4	2.4	14.2	2.9		11200.	0.950	
PETRLM REFINRY PRS GAS C9	8.1	2.6	1.8	2.3	4.5	4.5		0.0	0.000	
SYNTHETIC RESINS UREA-MELANINE	4.8 4.5	3.2	2.2	2.2	4.8	2.2		2600.	1.000	
ASPHALT BLOWING		1.7	1.6	2.1	3.4	1.6		1800.	0.987	
TEXTILE - HEAT SETTING	4.4	3.5	2.1	2.1	4.4	2.1		2300.	0.990	
SYNTHETIC RESINS ABS-SAN	7.6 2.8	1.0	0.61	2.0	2.3	1.4		850.	0.513	
WHISKEY		1.1	1.0	1.3	2.2	1.0		1100.	0.987	
PETRLM STRG SPC NAP WRKNG	2.7 1.7	1.7	1.2	1.2	2.7	1.2		1500.	0.980	
PETR. - TRANSFER - AVGAS	4.3	1.3	0.27	1.1	1.2	1.2		0.0	0.000	
TEXTILE - TEXTURIZING		1.4	0.79	1.0	3.3	2.4		990.	0.389	
SYNTHETIC FIBERS ACETATE	2.2 1.8	0.34	0.20	1.00	0.43	0.26		170.	0.750	
* BRICK & RELATED CLAY PRODUCTS		1.4	0.77	0.77	1.8	0.82		1000.	0.950	
PETR. - TRANSFER - SP. NAP.	1.3 0.94	1.0	0.69	0.69	1.3	0.69		620.	1.000	
FIBERGLASS MANUF - W86L		0.68	0.39	0.51	0.73	0.60		120.	0.378	
	1.9	1.3	0.48	0.48	1.9	0.53		1400.	0.970	

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR		1 - E / E _N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985	T S N 1985	
COFFEE ROASTING	0.72	0.72	0.43	0.43	0.72	0.44	280.	0.995
POLYPROPYLENE	1.8	0.37	0.36	0.42	1.5	0.36	1100.	0.994
TEXTILE - CARPET MFG	1.1	0.57	0.33	0.37	0.95	0.37	580.	0.944
SMOKED MEAT	0.60	0.51	0.31	0.31	0.60	0.43	170.	0.571
SYNTHETIC RESINS ALKYD	0.36	0.31	0.17	0.17	0.36	0.17	180.	0.990
LEAD ACID BATTERY PLANTS	0.45	0.21	0.12	0.16	0.34	0.13	200.	0.985
SEC ZINC SWEAT	0.33	0.23	0.15	0.15	0.33	0.15	180.	0.999
AUTOBODY INCINERATORS	0.50	0.13	0.090	0.080	0.50	0.27	220.	0.540
PATHOLOGICAL INCINERATORS	0.11	0.084	0.051	0.051	0.11	0.052	50.0	0.989
SEC MAGNESIUM	0.029	0.024	0.016	0.016	0.029	0.016	10.0	0.999

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HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR		UNITS/YR	CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E	N		P	B		A	B	
INDUSTRIAL SURFACE COATING											
PET REF - MISC PT SOURCE	0.82	LB/TON	5.340	0.655	6.550	0.0425	0.078C	E6 TONS	867.	364.	971.
DEGREASING	0.85	LB/TON	0.596	0.293	0.586	0.0315	0.042C	E6 TONS	4937.	1530.	2527.
AMMONIA - METHANATOR PLANT	0.82	LB/TON	1.150	0.150	1.500	0.0425	0.032C	E6 TONS	1626.	683.	602.
AMMONIA - REGENERATOR & CO ABSORBER	0.83	LB/TON	90.000	0.450	90.000	0.0455	0.090C	E6 TONS	11.1	5.0	15.2
PETR. - REFUELING	0.83	LB/TON	90.000	0.450	90.000	0.0455	0.090C	E6 TONS	11.1	5.0	15.2
INTERNAL COMBUSTION ENGS SPKIGN	0.85	LB/BARREL	0.504	0.076	0.504	0.0315	0.035C	E6 BBL	2950.	915.	1195.
PETRLM STRG CRD 81L BRTHNG	0.58	LB/TON	56.000	0.000	56.000	0.0205	0.0875	E6 TONS	28.7	5.7	25.0
EXIST. NEW	1.00	LB/BARREL	2.290	1.560	2.830	0.0315	0.042C	E6 BBL	589.	183.	300.
ETHYLENE OXIDE - AIR OXIDATION	1.00	LB/BARREL	392.000	3.920	392.000	0.0455	0.075C	E6 TONS	1.7	0.76	1.8
CARBON BLACK - FURNACE PROCESS	0.87	LB/TON	570.000	0.570	570.000	0.0455	0.025C	E6 TONS	2.0	0.89	0.56
PETR - SERVICE STATIONS	0.77	LB/TON	0.229	0.034	0.378	0.0315	0.035C	E6 BBL	2950.	915.	1195.
DRY CLEANING	0.85	LB/BARREL	258.000	9.000	258.000	0.0505	0.018C	E6 TONS	2.4	1.2	0.46
ORCHARD HEATERS	1.00	LB/TON	9.200	0.000	9.200	0.0335	0.0285	E6 TONS	60.0	19.8	16.8
PETRLM STRG GASOLINE BRTHNG	1.00	LB/BARREL	1.490	0.290	2.850	0.0315	0.035C	E6 BBL	477.	148.	196.
EXIST. NEW	1.00	LB/BARREL	0.290	0.000	0.019	0.0505	0.055C	E12 BTU	28011.	14006.	19836.
BOILERS >250 MM BTU/HR	0.58	LB/E6 BTU	5.900	0.060	5.900	0.0285	0.0105	E6 TONS	75.5	21.1	7.5
COKE OVENS - BY PRODUCT	0.93	LB/TON	438.000	4.400	438.000	0.0455	0.043C	E6 TONS	0.79	0.36	0.42
CHARCOAL	0.85	LB/TON	0.071	0.048	0.084	0.0315	0.042C	E6 BBL	6000.	1860.	3054.
PETRLM STRG CRD 91L WRKNG	0.85	LB/BARREL	0.042	0.000	0.042	0.0375	0.043C	E12 BTU	26471.	9794.	13857.
EXIST. NEW	0.85	LB/BARREL	31.300	30.300	31.300	0.0205	0.0285	E6 TONS	18.0	3.6	5.0
BOILERS .3-10 MM BTU/HR	0.25	LB/E6 BTU									
INTERNAL COMB ENGS DIESEL DUALFUEL	0.58	LB/TON									

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES ALLOWABLE E S	UNCONT E U	GROWTH RATES DECIMAL/YR P B C	UNITS/YR	INDUSTRY CAPACITY/PRODUCTION		
							A 1975	B 1985	C 1985
PETRO. - TANKS - D8 - BREATH									
GRAPHIC ARTS-GRAVURE	1.00	LB/BARREL	0.431	0.593	0.031S	E6 BBL	643.	199.	238.
B9ILERS 10-250 MM BTU/HR	0.80	LB/T8N	2300.000	2300.000	0.045S	E6 T8NS	0.12	0.073	0.074
GRAPHIC ARTS FLEXOGRAPHY	0.32	LB/E6 BTU	0.045	0.045	0.050S	E12 BTU	19534.	9767.	2914.
PET REF - VACUUM DIST.	0.80	LB/T8N	4800.000	4800.000	0.045S	E6 T8NS	0.051	0.023	0.032
C9RE OVENS	0.85	LB/T8N	0.130	0.130	0.031S	E6 T8NS	1846.	572.	945.
VEGETABLE OIL PRODUCTION	0.93	LB/T8N	10.500	10.500	0.028S	E6 T8NS	23.0	6.4	8.0
PETRLM STRG JET FUEL BRTHNG	0.92	LB/T8N	37.900	38.000	0.028S	E6 T8NS	6.5	1.8	1.8
EXIST. NEW.	1.00	LB/BARREL	1.000	1.400	0.031S	E6 BBL	124.	38.4	181.
GRAPHIC ARTS - LETTERPRESS	1.00		0.550						
GRAPHIC ARTS - LITHOGRAPHY	0.80	LB/T8N	1500.000	1500.000	0.045S	E6 T8NS	0.11	0.049	0.069
GRAPHIC ARTS - METAL DEGRATING	0.80	LB/T8N	2500.000	2800.000	0.045S	E6 T8NS	0.063	0.028	0.040
B9ILERS 4.3 MM BTU/HR	0.80	LB/T8N	3200.000	3700.000	0.045S	E6 T8NS	0.046	0.021	0.029
W99D PULPING KRAFT PROCESS	0.30	LB/E6 BTU	0.019	0.019	0.020S	E12 BTU	24572.	4914.	8131.
ASPHALT BATCHING	0.98	LB/T8N	4.690	4.690	0.031S	E6 T8NS	34.0	10.5	4.3
DIRECT FIRING OF MEAT	0.47	LB/T8N	0.167	0.167	0.008S	E6 T8NS	1480.	118.	740.
ACRYLONITRILE	0.62	LB/T8N	6136.000	6136.000	0.050S	E6 T8NS	0.034	0.017	0.011
FORMALDEHYDE	0.90	LB/T8N	91.000	330.000	0.045S	E6 T8NS	0.83	0.37	1.2
PAINT	0.72	LB/T8N	22.200	27.500	0.045S	E6 T8NS	4.2	1.9	6.1
AUTOMOBILE ASSEMBLY	0.85	LB/T8N	30.000	30.000	0.067S	E6 T8NS	4.9	3.3	1.5
PETRLM STRG GASOLINE WKNG	0.91	LB/PRD UNT	12.600	21.000	0.040S	E6 PU	10.6	4.2	3.5
EXIST. NEW.	0.85	LB/BARREL	0.071	0.116	0.031S	E6 BBL	2950.	915.	1211.
	0.85		0.012						

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	ALLOWABLE E S	EMISSION RATES		UNCON E U	GROWTH RATES DECIMAL/YR			UNITS/YR	CAPACITY/PRODUCTION		C
				E N	E S		P P	P P	P C		A 1975	B 1985	
PETRLM STRG AV GS BRTHNG EXIST. NEW.	1.00 1.00	L3/BARREL	2.060 1.350	1.350		2.850	0.0315	0.094C		E6 BBL	37.0	11.5	53.9
PETR. - TRANSFER - GAS													
PETR. - TRANSFER - CRUDE	0.85 0.85	LB/BARREL	0.071 0.071	0.012 0.048		0.116 0.084	0.0425 0.0295	0.035C	0.042C	E6 BBL	1560.	651.	632.
BEER											1440.	418.	737.
INDUSTRIAL COMMERCIAL INCINERATORS													
ETHYLENE DICHLORIDE	0.81 0.36	LB/TON LB/TON	10.900 2.880	0.109 0.000		10.900 2.880	0.0405 0.0395	0.070C	0.110C	E6 TONS	7.2	2.9	7.0
POLYETHYLENE - LOW DENSITY	0.62	LB/TON	19.600	0.140		140.000	0.0455	0.090C		E6 TONS	3.3	1.5	4.5
PALEIC ANHYDRIDE BENZENE OXID.	0.88	LB/TON	4.200	0.250		25.000	0.0065	0.165C		E6 TONS	4.8	0.29	17.5
SYNTHETIC RESINS ACRYLIC	1.00	LB/TON	147.000	0.172		172.000	0.0455	0.090C		E6 TONS	0.23	0.10	0.31
MUNICIPAL INCINERATOR	0.87	LB/TON	36.000	2.400		240.000	0.0455	0.154C		E6 TONS	0.58	0.26	1.9
POLYETHYLENE - HIGH DENSITY	0.56	LB/TON	2.700	0.000		2.700	0.0395	0.0465		E6 TONS	32.5	12.7	14.9
PHTHALIC ANHYDRIDE - 8-XYLENE	1.00	LB/TON	7.400	0.500		50.000	0.0005	0.176C		E6 TONS	1.9	0.0	7.6
VARNISH	0.78	LB/TON	84.600	5.000		130.000	0.0205	0.079C		E6 TONS	0.42	0.084	0.48
POLYVINYL CHLORIDE	0.85	LB/TON	34.900	0.679		67.900	0.0675	0.026C		E6 TONS	1.3	0.86	0.38
PETRLM STRG JET FUEL WRKNG EXIST. NEW.	0.82 0.85 0.85	LB/TON LB/BARREL	9.600 0.090 0.054	0.085 0.054		17.000 0.116	0.0005 0.0315	0.078C		E6 TONS	2.7	0.0055	3.1
PETR. - TANKS - KER - BREATH											276.	85.6	402.
SYNTHETIC FIBERS NYLON	1.00	LB/BARREL	0.435	0.295		0.593	0.0315	0.0005		E6 BBL	75.8	23.5	0.0
PRINTING INK	0.72	LB/TON	7.000	0.350		7.000	0.0455	0.127C		E6 TONS	1.7	0.76	3.9
PETR. - TRANSFER - JETFUEL	0.83	LB/TON	48.000	12.000		120.000	0.0455	0.050C		E6 TONS	0.43	0.19	0.27
PETRLM STRG SPC NAP BRTHNG EXIST. NEW.	0.85 1.00 1.00	LB/BARREL LB/BARREL	0.090 1.340 1.300	0.054 1.300		0.116 2.850	0.0425 0.0315	0.094C	0.007C	E6 BBL	146.	60.9	213.
											18.2	5.6	1.3

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCENT E	GROWTH RATES DECIMAL/YR		UNITS/YR	CAPACITY/PRODUCTION		C
			ALLOWABLE E S	E N		P D	P C		A 1975	B 1985	
PLYWOOD-VENEER	0.95	LB/TON	0.001	0.000	0.001	0.050S	0.025C	E6 TONS	22600.	11300.	6330.
DEEP FAT FRYING	0.81	LB/TON	6.240	0.078	7.750	0.028S	0.043C	E6 TONS	2.6	0.74	1.4
POLYSTYRENE	0.88	LB/TON	4.200	0.120	11.700	0.005S	0.075C	E6 TONS	2.3	0.12	2.5
MINERAL WOOL	0.82	LB/TON	2.020	0.870	2.020	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
SYNTHETIC RESINS PHENOLIC	0.80	LB/TON	5.760	0.075	7.500	0.005S	0.07C	E6 TONS	1.1	0.055	1.1.
PETRLM REFRY PRS GAS C8	0.85	LB/E6 BTU	33.000	0.000	33.000	0.031S	0.042C	E12 BTU	0.23	0.070	0.12
PETRLM STRG AV GS WRKNG EXIST.	0.85	LB/BARREL	0.090	0.055	0.116	0.031S	0.094C	E6 BBL	67.0	20.8	97.5
NEW	0.85		0.055								
STYRENE - BUTADIENE RUBBER	0.75	LB/TON	4.200	3.100	4.200	0.003S	0.020C	E6 TONS	2.3	0.070	0.51
ASPHALT BLOWING	0.90	LB/TON	2.500	0.025	2.500	0.042S	0.025S	E6 TONS	3.1	1.3	0.79
SYNTHETIC RESINS UREA-MELANINE	0.80	LB/TON	5.760	0.075	7.500	0.005S	0.073C	E6 TONS	0.74	0.037	0.76
PETR. - TRANSFER - AVGAS	0.85	LB/BARREL	0.090	0.055	0.116	0.042S	0.094C	E6 BBL	35.6	14.8	51.8
WHISKEY	0.95	LB/PRD UNIT	2.760	0.055	2.760	0.032S	0.060S	E6 PU	1.3	0.42	0.78
TEXTILE - HEAT SETTING	0.86	LB/TON	3.054	1.486	10.180	0.042S	0.081C	E6 TONS	0.79	0.33	0.93
SYNTHETIC RESINS ABS-SAN	0.80	LB/TON	5.760	0.075	7.500	0.005S	0.072C	E6 TONS	0.47	0.023	0.47
FIBERGLASS MANUF - W09L	0.70	LB/TON	3.390	0.102	3.390	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
SYNTHETIC FIBERS ACETATE	0.93	LB/TON	7.000	0.350	7.000	0.045S	0.026C	E6 TONS	0.43	0.19	0.14
POLYPROPYLENE	0.78	LB/TON	0.590	0.003	0.700	0.003S	0.150C	E6 TONS	1.6	0.048	4.9.
BRICK & RELATED CLAY PRODUCTS	0.40	LB/TON	0.073	0.000	0.073	0.033S	0.027S	E6 TONS	35.7	11.8	9.6
PETRLM STRG SPC NAP WRKNG EXIST.	0.85	LB/BARREL	0.090	0.056	0.116	0.031S	0.007C	E6 BBL	33.0	10.2	2.4
NEW	0.85		0.056								
TEXTILE - CARPET MFG	0.86	LB/TON	0.720	0.040	0.800	0.042S	0.053C	E6 TONS	1.8	0.76	1.2

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION			C 1985
			S	E	N	U	P	C	A	B		
PETR. - TRANSFER - SP. MAP.												
COFFEE ROASTING	0.85	LB/BARREL	0.090	0.056	0.116	0.042S	0.007C	E6 BBL	17.7	7.4		1.3
SMOKED MEAT	0.85	LB/TON	1.100	0.005	1.100	0.040S	0.000S	E6 TONS	1.5	0.62		0.0
AUTOBODY INCINERATORS	0.81	LB/TON	0.350	0.150	0.350	0.040S	0.017C	E6 TONS	3.6	1.4		0.66
TEXTILE - TEXTURIZING	0.90	LB/PRD UNT	1.000	0.460	1.000	0.039S	0.240S	E6 PU	0.29	0.11		0.82
SYNTHETIC RESINS ALKYL	0.86	LB/TON	0.920	0.230	4.600	0.042S	0.023C	E6 TONS	0.87	0.36		0.22
LEAD ACID BATTERY PLANTS	0.68	LB/TON	1.710	0.017	1.710	0.045S	0.015C	E6 TONS	0.53	0.24		0.085
SEC ZINC SWEAT	0.76	LB/PRD UNT	0.007	0.000	0.009	0.040S	0.050C	E6 PU	80.0	32.0		50.3
PATHOLOGICAL INCINERATOR	0.82	LB/TON	2.810	0.003	2.810	0.035S	0.039C	E6 TONS	0.20	0.069		0.091
SEC MAGNESIUM	0.34	LB/TON	3.300	0.040	3.800	0.039S	0.026C	E6 TONS	0.13	0.051		0.038
	0.82	LB/TON	3.390	0.003	3.390	0.035S	0.016C	E6 TONS	0.017	0.0061		0.0030

HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T-S-N 1985	I-E/E N-S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985	
INDUSTRIAL SURFACE COATING 4937.		1899.	1101.	1351.	4025.	1460.	0.877
PET REF - MISC PT SOURCE 1859.		1230.	848.	848.	1859.	1354.	0.500
DEGREASING 1370.		767.	445.	560.	1051.	524.	0.870
AMMONIA - METHANATOR PLANT 981.		415.	228.	228.	981.	232.	0.995
AMMONIA - REGENERATOR & CO ABSORBER 981.		415.	228.	228.	981.	232.	0.995
PETR. - REFUELING 888.		632.	436.	436.	888.	504.	0.849
INTERNAL COMBUSTION ENGS SPKIGN 873.		467.	373.	373.	873.	373.	1.000
PETRLM STRG CRD OIL BRTHNG 1280.		674.	465.	585.	842.	842.	-0.000
ETHYLENE OXIDE - AIR OXIDATION 597.		290.	159.	159.	597.	164.	0.990
CARBON BLACK - FURNACE PROCESS 558.		436.	240.	240.	558.	240.	0.999
PETR - SERVICE STATIONS 666.		287.	198.	327.	403.	229.	0.852
DRY CLEANING 364.		304.	152.	152.	364.	160.	0.965
ORCHARD HEATERS 353.		276.	185.	185.	353.	185.	1.000
PETRLM STRG GASOLINE BRTHNG 959.		355.	245.	469.	295.	295.	0.000
BOILERS >250 MM BTU/HR 264.		154.	77.2	77.2	264.	77.2	1.000
COKE OVENS - BY PRODUCT 228.		207.	149.	149.	228.	150.	0.990
CHARCOAL 225.		148.	81.4	81.4	225.	82.8	0.990
PETRLM STRG CRD OIL MKNNG 323.		181.	125.	148.	225.	225.	0.000
BOILERS .3-10 MM BTU/HR 212.		139.	87.6	87.6	212.	87.6	1.000
INTERNAL COMB ENGS DIESEL DUALFUEL 209.		163.	130.	130.	209.	206.	0.932

HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS			T N 1985	TONS/YEAR T S N 1985	I - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985			
PETRO. - TANKS - DR - BREATH								
GRAPHIC ARTS-GRAVURE	261.	139.	95.6	132.	190.	158.	31700.	0.336
• BOILERS 10-250 MM BTU/HR	175.	108.	59.2	59.2	175.	59.3	116000.	0.999
GRAPHIC ARTS FLEXOGRAPHY	162.	141.	70.3	70.3	162.	70.3	91200.	1.000
PET. REF. - VACUUM DIST.	159.	97.9	53.9	53.9	159.	54.9	104000.	0.990
CORE OVENS	154.	102.	70.4	70.4	154.	70.4	83700.	0.999
VEGETABLE OIL PRODUCTION	152.	112.	80.9	80.9	152.	87.9	63600.	0.900
PETRLM STRG JET FUEL BATHING	145.	114.	81.8	82.1	144.	107.	37400.	0.599
GRAPHIC ARTS - LETTERPRESS	213.	62.0	42.8	59.9	114.	114.	0.0	0.000
GRAPHIC ARTS - LITHOGRAPHY	108.	66.0	36.3	36.3	108.	37.0	70400.	0.990
GRAPHIC ARTS - METAL DEGRATING	115.	63.0	34.6	38.8	103.	35.4	67200.	0.989
• BOILERS 4.3 MM BTU/HR	93.2	58.9	32.4	37.4	95.9	33.1	62700.	0.988
WOOD PULPING KRAFT PROCESS	83.0	70.0	56.0	56.0	93.2	56.0	37100.	1.000
• ASPHALT BATCHING	87.1	78.1	53.9	53.9	88.0	84.8	3200.	0.096
DIRECT FIRING OF HEAT	85.3	58.1	53.4	53.4	87.1	53.4	33600.	1.000
ACRYLONITRILE	305.	64.1	32.1	32.1	85.3	54.9	30300.	0.570
FORMALDEHYDE	102.	34.0	18.7	67.8	84.2	18.8	65400.	0.998
PAINT	81.5	33.6	18.5	22.9	82.6	19.3	63300.	0.987
AUTOMOBILE ASSEMBLY	135.	62.9	20.9	20.9	81.5	21.5	59900.	0.990
PETRLM STRG GASOLINE MKNG	205.	60.8	36.5	60.8	80.9	37.9	42900.	0.967
		89.0	61.4	100.	72.3	72.3	0.0	0.000

HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					T N 1985	T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985			
PETRLM STRG AV GS BRTHNG								
PETR. - TRANSFER - GAS	129.	38.1	26.3	36.4	70.4	70.4	0.0	-0.000
PETR. - TRANSFER - CRUDE	108.	47.1	27.4	44.8	66.1	33.8	32300.	0.837
BEER	77.7	43.5	30.9	36.5	65.7	54.4	11200.	0.324
INDUSTRIAL COMMERCIAL INCINERATORS	62.5	31.8	19.1	19.1	62.5	19.5	43000.	0.990
ETHYLENE DICHLORIDE	50.7	17.8	10.9	10.9	50.7	10.9	39700.	1.000
POLYETHYLENE - LOW DENSITY	339.	20.1	11.0	78.8	47.5	11.3	36100.	0.993
MALEIC ANHYDRIDE BENZENE OXID.	246.	9.0	8.4	50.1	41.3	10.4	30800.	0.940
SYNTHETIC RESINS ACRYLIC	46.8	16.9	9.3	10.9	40.0	9.3	30600.	0.999
MUNICIPAL INCINERATOR	255.	9.1	5.0	33.5	38.2	7.2	31000.	0.933
POLYETHYLENE - HIGH DENSITY	35.9	24.6	15.0	15.0	35.9	15.0	20800.	1.000
PTHALIC ANHYDRIDE - O-XYLENE	238.	7.0	7.0	47.0	35.2	8.9	26300.	0.932
VARNISH	45.4	14.2	11.3	17.0	30.3	12.4	17800.	0.942
POLYVINYL CHLORIDE	43.4	19.2	6.4	12.4	24.9	6.7	18100.	0.981
PETRLM STRG JET FUEL WRKNG	40.5	10.8	10.8	19.1	22.9	10.9	11900.	0.991
PETR. - TANKS - KER - BREATH	33.4	10.6	7.3	9.4	18.5	18.5	0.0	0.000
SYNTHETIC FIBERS NYLON	22.5	16.5	11.4	15.5	16.5	14.8	1600.	0.322
PRINTING INK	14.2	4.3	2.4	2.4	14.2	2.9	11200.	0.950
PETR. - TRANSFER - JETFUEL	34.6	8.5	4.7	11.7	13.9	7.0	6800.	0.750
PETRLM STRG SPC NAP BRTHNG	17.7	5.6	3.3	4.2	13.7	9.5	4100.	0.400
	27.8	12.2	8.4	17.9	12.9	12.9	0.0	-0.000

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS							TONS/YEAR T-S N 1985	I - E / E N S
	T U 1985	T A 1975	T F 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985			
PLYWOOD-VENEER									
DEEP FAT FRYING	10.3	8.1	4.0	4.0	10.3	4.1	6200.	0.990	
POLYSTYRENE	12.6	6.7	4.8	6.0	10.2	4.9	5200.	0.988	
MINERAL WOOL	24.9	4.3	4.1	11.5	9.0	4.3	4600.	0.971	
SYNTHETIC RESINS PHENOLIC	8.4	7.0	4.9	4.9	8.4	6.4	1900.	0.569	
PETRLM REFRY PRS GAS CO	6.5	2.5	2.4	3.1	5.0	2.4	2500.	0.387	
PETRLM STRG AV GS WRKNG	4.8	3.2	2.2	2.2	4.8	2.2	2600.	1.000	
STYRENE - BUTADIENE RUBBER	8.1	2.6	1.8	2.3	4.5	4.5	0.0	0.000	
ASPHALT BLOWING	4.5	3.7	3.6	3.6	4.5	4.3	240.	0.252	
SYNTHETIC RESINS UREA-MELANINE	4.4	3.5	2.1	2.1	4.4	2.1	2300.	0.990	
PETR. - TRANSFER - AVGAS	4.5	1.7	1.6	2.1	3.4	1.6	1800.	0.987	
WHISKEY	4.3	1.4	0.79	1.0	3.3	2.4	990.	0.389	
TEXTILE - HEAT SETTING	2.7	1.7	1.2	1.2	2.7	1.2	1500.	0.980	
SYNTHETIC RESINS ABS-SAN	7.6	1.0	0.61	2.0	2.3	1.4	850.	0.513	
FIBERGLASS MANUF - WOOL	2.8	1.1	1.0	1.3	2.2	1.0	1100.	0.987	
SYNTHETIC FIBERS ACETATE	1.5	1.3	0.48	0.48	1.9	0.53	1400.	0.970	
POLYPROPYLENE	1.8	1.4	0.77	0.77	1.8	0.82	1000.	0.950	
• BRICK & RELATED CLAY PRODUCTS	1.8	0.37	0.36	0.42	1.5	0.36	1100.	0.994	
PETRLM STRG SPC NAP WRKNG	1.3	1.0	0.69	0.69	1.3	0.69	620.	1.000	
TEXTILE - CARPET MFG	1.7	1.3	0.87	1.1	1.2	1.2	0.0	0.000	
	1.1	0.57	0.33	0.37	0.95	0.37	580.	0.944	

HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - T S - V 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985		
PETR. - TRANSFER - SP. NAP.	0.94	0.68	0.39	0.51	0.73	120.	0.378
COFFEE ROASTING	0.72	0.72	0.43	0.43	0.72	280.	0.995
SMOKED MEAT	0.60	0.51	0.31	0.31	0.60	170.	0.571
AUTOMOBILE INCINERATORS	0.50	0.13	0.080	0.080	0.50	220.	0.540
TEXTILE - TEXTURIZING	2.2	0.34	0.20	1.00	0.43	170.	0.750
SYNTHETIC RESINS ALKYL	0.36	0.31	0.17	0.17	0.36	180.	0.990
LEAD ACID BATTERY PLANTS	0.45	0.21	0.12	0.16	0.34	200.	0.985
SEC ZINC SWEAT	0.33	0.23	0.15	0.15	0.33	180.	0.999
PATHOLOGICAL INCINERATOR	0.11	0.084	0.051	0.051	0.11	50.0	0.989
SEC MAGNESIUM	0.029	0.024	0.016	0.016	0.029	10.0	0.999

$$\frac{T_S - T_N}{\quad}$$

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E U	GROWTH RATES DECIMAL/YR		CAPACITY/PRODUCTION		INDUSTRY B	
			ALLOWABLE E S	E N		P B	C	A 1975	1985		C 1985
INDUSTRIAL SURFACE COATING											
AMMONIA - METHANATOR PLANT	0.82	LB/TON	5.340	0.655	6.550	0.042S	0.078C	E6 TONS	867.	364.	971.
AMMONIA - REGENERATOR & CO ABSORBER	0.83	LB/TON	90.000	0.450	90.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
DEGREASING	0.83	LB/TON	90.000	0.450	90.000	0.045S	0.090C	E6 TONS	11.1	5.0	15.2
PET REF - MISC PT SOURCE	0.82	LB/TON	1.150	0.150	1.500	0.042S	0.032C	E6 TONS	1626.	683.	602.
INTERNAL COMBUSTION ENGS SIGN	0.85	LB/TON	0.586	0.293	0.586	0.031S	0.042C	E6 TONS	4937.	1530.	2527.
ETHYLENE OXIDE - AIR OXIDATION	0.58	LB/TON	56.000	0.000	56.000	0.020S	0.087S	E6 TONS	28.7	5.7	25.0
PETR. - REFUELING	0.87	LB/TON	392.000	3.920	392.000	0.045S	0.075C	E6 TONS	1.7	0.76	1.8
CARBON BLACK - FURNACE PROCESS	0.85	LB/BARREL	0.504	0.076	0.504	0.031S	0.035C	E6 BBL	2950.	915.	1195.
CRY CLEANING	0.77	LB/TON	570.000	0.570	570.000	0.045S	0.025C	E6 TONS	2.0	0.89	0.56
BOILERS >250 MM BTU/HR	1.00	LB/TON	258.000	9.000	258.000	0.050S	0.018C	E6 TONS	2.4	1.2	0.46
PETR - SERVICE STATIONS	0.58	LB/E6 BTU	0.019	0.000	0.019	0.050S	0.055C	E12 BTU	28011.	14006.	19836.
ORCHARD HEATERS	0.85	LB/BARREL	0.229	0.034	0.378	0.031S	0.035C	E6 BBL	2950.	915.	1195.
CHARCOAL	1.00	LB/TON	9.200	0.000	9.200	0.033S	0.028S	E6 TONS	60.0	19.8	16.8
BOILERS .3-10 MM BTU/HR	0.85	LB/TON	438.000	4.430	438.000	0.045S	0.043C	E6 TONS	0.79	0.36	0.42
GRAPHIC ARTS-GRAVURE	0.25	LB/E6 BTU	0.042	0.000	0.042	0.037S	0.043C	E12 BTU	26471.	9794.	13857.
GRAPHIC ARTS FLEXOGRAPHY	0.80	LB/TON	2300.000	2.300	2300.000	0.045S	0.050C	E6 TONS	0.12	0.053	0.074
BOILERS 10-250 MM BTU/HR	0.80	LB/TON	4800.000	48.000	4800.000	0.045S	0.050C	E6 TONS	0.051	0.023	0.032
PET REF - VACUUM DIST.	0.32	LB/E6 BTU	0.045	0.000	0.045	0.050S	0.014C	E12 BTU	19534.	9767.	2914.
COKE OVENS - BY PRODUCT	0.85	LB/TON	0.130	0.000	0.130	0.031S	0.042C	E6 TONS	1846.	572.	945.
GRAPHIC ARTS - LETTERPRESS	0.93	LB/TON	5.900	0.060	5.900	0.028S	0.010S	E6 TONS	75.5	21.1	7.5
	0.80	LB/TON	1500.000	15.000	1500.000	0.045S	0.050C	E6 TONS	0.11	0.049	0.069

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES			CAPACITY/PRODUCTION		
			ALLOWABLE E S	E N	UNCONT E U	P B	P C	UNITS/YR	A 1975	B 1985	C 1985
GRAPHIC ARTS - LITHOGRAPHY	0.80	LB/TON	2500.000	28.000	2800.000	0.045S	0.050C	E6 TONS	0.063	0.028	0.040
ACRYLONITRILE	0.90	LB/TON	91.000	0.165	330.000	0.045S	0.095C	E6 TONS	0.83	0.37	1.2
CORE OVENS	0.93	LB/TON	10.500	1.050	10.500	0.028S	0.035S	E6 TONS	23.0	6.4	8.0
FORMALDEHYDE	0.72	LB/TON	22.200	0.280	27.500	0.045S	0.094C	E6 TONS	4.2	1.9	6.1
GRAPHIC ARTS - METAL DECRATING	0.80	LB/TON	3200.000	37.000	3700.000	0.045S	0.050C	E6 TONS	0.046	0.021	0.029
PAINT	0.85	LB/TON	30.000	0.300	30.000	0.067S	0.026C	E6 TONS	4.9	3.3	1.5
BEER	0.81	LB/TON	10.900	0.109	10.900	0.040S	0.070C	E6 TONS	7.2	2.9	7.0
AUTOMOBILE ASSEMBLY	0.91	LB/PRD UNIT	12.600	0.420	21.000	0.040S	0.029C	E6 PU	10.6	4.2	3.5
INDUSTRIAL COMMERCIAL INCINERATORS	0.38	LB/TON	2.880	0.000	2.880	0.039S	0.110C	E6 TONS	32.6	12.7	60.0
VEGETABLE OIL PRODUCTION	0.92	LB/TON	37.900	15.200	38.000	0.028S	0.027S	E6 TONS	6.5	1.8	1.8
BOILERS < 3 MM BTU/HR	0.30	LB/E6 BTU	0.019	0.000	0.019	0.020S	0.029C	E12 BTU	24572.	4914.	8131.
ETHYLENE DICHLORIDE	0.62	LB/TON	19.600	0.140	140.000	0.045S	0.090C	E6 TONS	3.3	1.5	4.5
ASPHALT BATCHING	0.47	LB/TON	0.167	0.000	0.167	0.008S	0.050S	E6 TONS	1480.	118.	740.
PETR. - TRANSFER - GAS	0.85	LB/BARREL	0.071	0.012	0.116	0.042S	0.035C	E6 BBL	1560.	651.	632.
PETRO. - TANKS - D9 - BREATH	1.00	LB/BARREL	0.431	0.286	0.593	0.031S	0.032C	E6 BBL	643.	199.	238.
SYNTHETIC RESINS ACRYLIC	0.87	LB/TON	36.000	2.400	240.000	0.045S	0.154C	E6 TONS	0.58	0.26	1.9
POLYETHYLENE - LOW DENSITY	0.88	LB/TON	4.200	0.250	25.000	0.006S	0.165C	E6 TONS	4.8	0.29	17.5
PALEIC ANHYDRIDE BENZENE OXID.	1.00	LB/TON	147.000	0.172	172.000	0.045S	0.090C	E6 TONS	0.23	0.10	0.31
DIRECT FIRING OF MEAT	0.62	LB/TON	6136.000	2636.000	6136.000	0.050S	0.033S	E6 TONS	0.034	0.017	0.011
POLYETHYLENE - HIGH DENSITY	1.00	LB/TON	7.400	0.500	50.000	0.000S	0.176C	E6 TONS	1.9	0.0	7.6
MUNICIPAL INCINERATOR	0.56	LB/TON	2.700	0.000	2.700	0.033S	0.046S	E6 TONS	32.5	12.7	14.9

HYDROCARBONS
SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	E N	UNCONT E U	P B	P C	UNITS/YR	A 1975	B 1985	
VARNISH											
PHthalic ANhydride - o-XYLENE	0.85	LB/TON	34.900	0.679	67.900	0.067S	0.026C	E6 TONS	1.3	0.86	0.38
POlyvinyl Chloride	0.78	LB/TON	86.600	5.000	130.000	0.020S	0.079C	E6 TONS	0.42	0.084	0.48
SYNthetic FIBERS NYLON	0.82	LB/TON	9.600	0.085	17.000	0.000S	0.078C	E6 TONS	2.7	0.0055	3.1
PETr. - TRANSFER - CRUDE	0.72	LB/TON	7.000	0.350	7.000	0.045S	0.127C	E6 TONS	1.7	0.76	3.9
PRINting INK	0.85	LB/BARREL	0.071	0.048	0.084	0.029S	0.042C	E6 BBL	1440.	418.	737.
FLYINGD-VEENER	0.83	LB/TON	48.000	12.000	120.000	0.045S	0.050C	E6 TONS	0.43	0.19	0.27
DEEP FAT FRYING	0.95	LB/TON	0.001	0.000	0.001	0.050S	0.025C	E6 TONS	22600.	11300.	6330.
POlystyrene	0.81	LB/TON	6.240	0.078	7.750	0.028S	0.043C	E6 TONS	2.6	0.74	1.4
PETr. - TRANSFER - JETFUEL	0.88	LB/TON	4.200	0.120	11.700	0.005S	0.075C	E6 TONS	2.3	0.12	2.5
WROD PULPING KRAFT PROCESS	0.85	LB/BARREL	0.090	0.054	0.116	0.042S	0.034C	E6 BBL	146.	60.9	213.
PETRLM REFINRY PRS GAS C9	0.96	LB/TON	4.690	4.240	4.690	0.031S	0.012C	E6 TONS	34.0	10.5	4.3
SYNthetic RESINS PHENOLIC	0.85	LB/E6 BTU	33.000	0.000	33.000	0.031S	0.042C	E12 BTU	0.23	0.070	0.12
INTERNAL COMB ENGS DIESEL DUALFUEL	0.80	LB/TON	5.760	0.075	7.500	0.005S	0.070C	E6 TONS	1.1	0.055	1.1
ASPHALT BLOWING	0.58	LB/TON	31.300	30.300	31.300	0.020S	0.028S	E6 TONS	18.0	3.6	5.0
MINERAL WROL	0.90	LB/TON	2.500	0.025	2.500	0.042S	0.025S	E6 TONS	3.1	1.3	0.79
SYNthetic RESINS UREA-MELANINE	0.82	LB/TON	2.020	0.870	2.020	0.029S	0.020S	E6 TONS	8.4	2.5	1.7
PETr. - TANKS - KER - BREATH	0.80	LB/TON	5.760	0.075	7.500	0.005S	0.073C	E6 TONS	0.74	0.037	0.76
WHISKEY	1.00	LB/BARREL	0.435	0.295	0.593	0.031S	0.000S	E6 BBL	75.8	23.5	0.0
FIBERGLASS MANUF - WROL	0.95	LB/PRD UNT	2.760	0.055	2.760	0.032S	0.060S	E6 PU	1.3	0.42	0.78
POlypropylene	0.70	LB/TON	3.390	0.102	3.390	0.063S	0.042C	E6 TONS	1.1	0.68	0.55
	0.78	LB/TON	0.590	0.003	0.700	0.003S	0.150C	E6 TONS	1.6	0.048	4.9

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			UNCERT E U	GROWTH RATES DECIMAL/YR			UNITS/YR	CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N	EMISSION E U		P B	P C	A 1975		B 1985	C 1985	
SYNTHETIC RESINS ABS-SAN	0.80	LB/TON	5.760	0.075	7.500	0.0055	0.072C	E6 TONS	0.47	0.023		0.47	
SYNTHETIC FIBERS ACETATE	0.93	LB/TON	7.000	0.350	7.000	0.0455	0.028C	E6 TONS	0.43	0.19		0.14	
PETR. - TRANSFER - AVGAS	0.85	LB/BARREL	0.090	0.055	0.116	0.042S	0.094C	E6 BBL	35.6	14.8		51.8	
TEXTILE - HEAT SETTING	0.86	LB/TON	3.054	1.486	10.180	0.042S	0.081C	E6 TONS	0.79	0.33		0.93	
BRICK & RELATED CLAY PRODUCTS	0.80	LB/TON	0.073	0.000	0.073	0.033S	0.027S	E6 TONS	35.7	11.8		9.6	
TEXTILE - CARPET MFG	0.86	LB/TON	0.720	0.040	0.800	0.042S	0.053C	E6 TONS	1.8	0.76		1.2	
COFFEE ROASTING	0.85	LB/TON	1.100	0.005	1.100	0.040S	0.000S	E6 TONS	1.5	0.62		0.0	
STYRENE - BUTADIENE RUBBER	0.75	LB/TON	4.200	3.100	4.200	0.003S	0.020C	E6 TONS	2.3	0.070		0.51	
AUTOBODY INCINERATORS	0.90	LB/PRD UNIT	1.000	0.460	1.000	0.039S	0.280S	E6 PU	0.29	0.11		0.82	
LEAD ACID BATTERY PLANTS	0.76	LB/PRD UNIT	0.007	0.000	0.009	0.040S	0.050C	E6 PU	80.0	32.0		50.3	
SYNTHETIC RESINS ALKYL	0.68	LB/TON	1.710	0.017	1.710	0.045S	0.015C	E6 TONS	0.53	0.24		0.085	
SEC ZINC SWEAT	0.82	LB/TON	2.810	0.003	2.810	0.035S	0.039C	E6 TONS	0.20	0.069		0.091	
TEXTILE - TEXTURIZING	0.86	LB/TON	0.920	0.230	4.600	0.042S	0.023C	E6 TONS	0.87	0.36		0.22	
SMOKED MEAT	0.81	LB/TON	0.350	0.150	0.350	0.040S	0.017C	E6 TONS	3.6	1.4		0.66	
PETR. - TRANSFER - SP. NAP.	0.85	LB/BARREL	0.090	0.056	0.116	0.042S	0.007C	E6 BBL	17.7	7.4		1.3	
PATHOLOGICAL INCINERATOR	0.34	LB/TON	3.800	0.040	3.800	0.039S	0.026C	E6 TONS	0.13	0.051		0.038	
SEC MAGNESIUM	0.82	LB/TON	3.390	0.003	3.390	0.035S	0.016C	E6 TONS	0.017	0.0061		0.0030	
PETRLM STRG AV GS BRTHNG	1.00	LB/BARREL	2.060	1.350	2.850	0.031S	0.094C	E6 BBL	37.0	11.5		53.9	
EXIST- NEW	1.00	LB/BARREL	1.350										
PETRLM STRG CRD OIL WRKNG	0.85	LB/BARREL	0.071	0.048	0.084	0.031S	0.042C	E6 BBL	6000.	1860.		3054.	
EXIST- NEW	0.85	LB/BARREL	0.048										
PETRLM STRG CRD OIL BRTHNG	1.00	LB/BARREL	2.290	1.560	2.880	0.031S	0.042C	E6 BBL	589.	183.		300.	
EXIST- NEW	1.00	LB/BARREL	1.560										

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E	EMISSION N		P	Q	P	A	B	C
PETRLM STRG EXIST.	0.85	GASOLINE WRKNG LB/BARREL	0.071	0.012	0.116	0.031S	0.035C	E6 BBL	2950.	915.	1211.
NEW	0.85		0.012								
PETRLM STRG EXIST.	1.00	GASOLINE BRTHNG LB/BARREL	1.490	0.290	2.850	0.031S	0.035C	E6 BBL	477.	148.	196.
NEW	1.00		0.290								
PETRLM STRG EXIST.	0.85	JET FUEL WRKNG LB/BARREL	0.090	0.054	0.116	0.031S	0.094C	E6 BBL	276.	85.6	402.
NEW	0.85		0.054								
PETRLM STRG EXIST.	1.00	JET FUEL BRTHNG LB/BARREL	1.000	0.650	1.400	0.031S	0.094C	E6 BBL	124.	38.4	181.
NEW	1.00		0.650								
PETRLM STRG EXIST.	0.85	SPC NAP WRKNG LB/BARREL	0.090	0.056	0.116	0.031S	0.007C	E6 BBL	33.0	10.2	2.4
NEW	0.85		0.056								
PETRLM STRG EXIST.	1.00	SPC NAP BRTHNG LB/BARREL	1.340	1.300	2.850	0.031S	0.007C	E6 BBL	18.2	5.6	1.3
NEW	1.00		1.300								
PETRLM STRG EXIST.	0.85	AV GS WRKNG LB/BARREL	0.090	0.055	0.116	0.031S	0.094C	E6 BBL	67.0	20.8	97.5
NEW	0.85		0.055								

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS				T S N 1985	T S N 1985	T S N 1995	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985				
INDUSTRIAL SURFACE COATING								
AMMONIA - METHANATOR PLANT	4937.	1899.	1101.	1351.	4025.	1460.	2560000.	0.877
AMMONIA - REGENERATOR & CO ABSORBER	981.	415.	228.	228.	981.	232.	749000.	0.995
DEGREASING	981.	415.	228.	228.	981.	232.	749000.	0.995
PET REF - MISC PT SOURCE	1370.	767.	445.	580.	1051.	524.	526000.	0.870
INTERNAL COMBUSTION ENGS SPKIGN	1859.	1230.	848.	848.	1859.	1354.	505000.	0.500
ETHYLENE OXIDE - AIR OXIDATION	873.	467.	373.	373.	873.	373.	499000.	1.000
PETR. - REFUELING	597.	290.	159.	159.	597.	164.	433000.	0.990
CARBON BLACK - FURNACE PROCESS	888.	632.	436.	436.	888.	504.	383000.	0.849
DRY CLEANING	553.	436.	240.	240.	558.	240.	318000.	0.999
BOILERS >250 MM BTU/HR	364.	304.	152.	152.	364.	160.	204000.	0.965
PETR - SERVICE STATIONS	264.	154.	77.2	77.2	264.	77.2	186000.	1.000
ORCHARD HEATERS	666.	287.	198.	327.	403.	229.	174000.	0.852
CHARCOAL	353.	276.	185.	185.	353.	185.	168000.	1.000
BOILERS .3-10 MM BTU/HR	225.	148.	81.4	81.4	225.	82.8	142000.	0.990
GRAPHIC ARTS-GRVATURE	212.	139.	87.6	87.6	212.	87.6	124000.	1.000
GRAPHIC ARTS FLEXOGRAPHY	175.	108.	59.2	59.2	175.	59.3	116000.	0.999
BOILERS 10-250 MM BTU/HR	153.	97.9	53.9	53.9	159.	54.9	104000.	0.990
PET REF - VACUUM DIST.	162.	141.	70.3	70.3	162.	70.3	91200.	1.000
COKE OVENS - BY PRODUCT	154.	102.	70.4	70.4	154.	70.4	83700.	0.999
	228.	207.	149.	149.	228.	150.	77900.	0.990

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					T S N 1985	T N 1985	T S N 1985	T N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985					
GRAPHIC ARTS - LETTERPRESS 108.		66.0	36.3	36.3	108.		37.0	70400.		0.990
GRAPHIC ARTS - LITHOGRAPHY 115.		63.0	34.6	38.8	103.		35.4	67200.		0.989
ACRYLONITRILE	305.	34.0	18.7	67.8	84.2		18.8	65400.		0.998
CORE OVENS	152.	112.	80.9	80.9	152.		87.9	63600.		0.900
FORMALDEHYDE	102.	33.6	18.5	22.9	82.6		19.3	63300.		0.987
GRAPHIC ARTS - METAL DECORATING 111.		58.9	32.4	37.4	95.9		33.1	62700.		0.988
PAINT		62.9	20.9	20.9	81.5		21.5	59900.		0.990
BEER	81.5	62.9	20.9	20.9	81.5		21.5	59900.		0.990
AUTOMOBILE ASSEMBLY 62.5		31.8	19.1	19.1	62.5		19.5	43000.		0.990
* INDUSTRIAL COMMERCIAL INCINERATORS 135.		60.8	36.5	60.8	80.9		37.9	42900.		0.967
VEGETABLE OIL PRODUCTION 50.7		17.8	10.9	10.9	50.7		10.9	39700.		1.000
* BOILERS < 3 MM BTU/HR 145.		114.	81.8	82.1	144.		107.	37400.		0.599
ETHYLENE DICHLORIDE 93.2		70.0	56.0	56.0	93.2		56.0	37100.		1.000
* ASPHALT BATCHING 339.		20.1	11.0	78.8	47.5		11.3	36100.		0.993
PETR. - TRANSFER - GAS 87.1		58.1	53.4	53.4	87.1		53.4	33600.		1.000
PETR. - TANKS - D9 - BREATH 105.		47.1	27.4	44.8	66.1		33.8	32300.		0.837
SYNTHETIC RESINS ACRYLIC 261.		139.	95.6	132.	190.		158.	31700.		0.336
POLYETHYLENE - LOW DENSITY 255.		9.1	5.0	33.5	38.2		7.2	31000.		0.933
MALEIC ANHYDRIDE BENZENE OXID. 246.		9.0	8.4	50.1	41.3		10.4	30800.		0.940
DIRECT FIRING OF MEAT 46.8		16.9	9.3	10.9	40.0		9.3	30600.		0.999
	85.3	64.1	32.1	32.1	85.3		54.9	30300.		0.570

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1935	T A 1975	EMISSIONS			T N 1985	TONS/YEAR T-S-N 1985	I - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985			
POLYETHYLENE - HIGH DENSITY 233.		7.0	7.0	47.0	35.2	8.9	26300.	0.932
MUNICIPAL INCINERATOR 35.9		24.6	15.0	15.0	35.9	15.0	20800.	1.000
VARNISH 48.4		19.2	6.4	12.4	24.9	6.7	18100.	0.981
PHTHALIC ANHYDRIDE - O-XYLENE 45.4		14.2	11.3	17.0	30.3	12.4	17800.	0.942
POLYVINYL CHLORIDE 40.5		10.8	10.8	19.1	22.9	10.9	11900.	0.991
SYNTHETIC FIBERS NYLON 14.2		4.3	2.4	2.4	14.2	2.9	11200.	0.950
PETR. - TRANSFER - CRUDE 77.7		43.5	30.9	36.5	65.7	54.4	11200.	0.324
PRINTING INK 34.6		8.5	4.7	11.7	13.9	7.0	6800.	0.750
PLYWOOD-VEENER 10.3		8.1	4.0	4.0	10.3	4.1	6200.	0.990
DEEP FAT FRYING 12.6		6.7	4.8	6.0	10.2	4.9	5200.	0.988
POLYSTYRENE 24.9		4.3	4.1	11.5	9.0	4.3	4600.	0.971
PETR. - TRANSFER - JETFUEL 17.7		5.6	3.3	4.2	13.7	9.5	4100.	0.400
WOOD PULPING KRAFT PROCESS 89.0		78.1	53.9	53.9	88.0	84.8	3200.	0.096
PETROLEUM REFINRY PRS GAS CO 4.8		3.2	2.2	2.2	4.8	2.2	2600.	1.000
SYNTHETIC RESINS PHENOLIC 6.5		2.5	2.4	3.1	5.0	2.4	2500.	0.987
INTERNAL COMB ENGS DIESEL DUALFUEL 209.		163.	130.	130.	209.	206.	2500.	0.032
ASPHALT BLOWING 4.4		3.5	2.1	2.1	4.4	2.1	2300.	0.990
MINERAL WOOL 8.4		7.0	4.9	4.9	8.4	6.4	1900.	0.569
SYNTHETIC RESINS UREA-MELANINE 4.5		1.7	1.6	2.1	3.4	1.6	1800.	0.987
PETR. - TANKS - KER - BREATH 22.5		16.5	11.4	15.5	16.5	14.8	1600.	0.322

HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS							T N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985				
WHISKEY										
FIBERGLASS MANUF - WOOL	2.7	1.7	1.2	1.2	2.7	1.2	1500.	0.980		
POLYPROPYLENE	1.9	1.3	0.48	0.48	1.9	0.53	1400.	0.970		
SYNTHETIC RESINS ABS-SAN	1.8	0.37	0.36	0.42	1.5	0.36	1100.	0.994		
SYNTHETIC FIBERS ACETATE	2.8	1.1	1.0	1.3	2.2	1.0	1100.	0.987		
PETR. - TRANSFER - AVGAS	1.4	1.4	0.77	0.77	1.8	0.82	1000.	0.950		
TEXTILE - HEAT SETTING	4.3	1.4	0.79	1.0	3.3	2.4	990.	0.389		
* BRICK & RELATED CLAY PRODUCTS	7.6	1.0	0.61	2.0	2.3	1.4	850.	0.513		
TEXTILE - CARPET MFG	1.3	1.0	0.69	0.69	1.3	0.69	620.	1.020		
COFFEE ROASTING	1.1	0.57	0.33	0.37	0.95	0.37	580.	0.944		
STYRENE - BUTADIENE RUBBER	0.72	0.72	0.43	0.43	0.72	0.44	280.	0.995		
AUTOBODY INCINERATORS	4.5	3.7	3.6	3.6	4.5	4.3	240.	0.262		
LEAD ACID BATTERY PLANTS	0.50	0.13	0.080	0.080	0.50	0.27	220.	0.540		
SYNTHETIC RESINS ALKYD	0.45	0.21	0.12	0.16	0.34	0.13	200.	0.985		
SEC ZINC SWEAT	0.36	0.31	0.17	0.17	0.36	0.17	180.	0.990		
TEXTILE - TEXTURIZING	0.33	0.23	0.15	0.15	0.33	0.15	180.	0.999		
SMOKED MEAT	2.2	0.34	0.20	1.00	0.43	0.26	170.	0.750		
PETR. - TRANSFER - SP. NAP.	0.60	0.51	0.31	0.31	0.60	0.43	170.	0.571		
PATHOLOGICAL INCINERATOR	0.94	0.68	0.39	0.51	0.73	0.60	120.	0.378		
SEC MAGNESIUM	0.11	0.084	0.051	0.051	0.11	0.052	50.0	0.989		
	0.029	0.024	0.016	0.016	0.029	0.016	10.0	0.999		

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					T N 1985	TONS/YEAR T S N 1985	I - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985			
PETRLM STRG AV GS BRTHNG								
129.		38.1	26.3	36.4	70.4	70.4	0.0	-0.000
PETRLM STRG CRD OIL WRKNG								
323.		181.	125.	148.	225.	225.	0.0	0.000
PETRLM STRG CRD OIL BRTHNG								
1280.		674.	465.	585.	842.	842.	0.0	-0.000
PETRLM STRG GASOLINE WRKNG								
205.		89.0	61.4	100.	72.3	72.3	0.0	0.000
PETRLM STRG GASOLINE BRTHNG								
959.		355.	245.	469.	295.	295.	0.0	0.000
PETRLM STRG JET FUEL WRKNG								
33.4		10.6	7.3	9.4	18.5	18.5	0.0	0.000
PETRLM STRG JET FUEL BRTHNG								
213.		62.0	42.8	59.9	114.	114.	0.0	0.000
PETRLM STRG SPC NAP WRKNG								
1.7		1.3	0.87	1.1	1.2	1.2	0.0	0.000
PETRLM STRG SPC NAP BRTHNG								
27.8		12.2	8.4	17.9	12.9	12.9	0.0	-0.000
PETRLM STRG AV GS WRKNG								
8.1		2.6	1.8	2.3	4.5	4.5	0.0	0.000

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HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCON- T	GROWTH RATES			INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N		P	D	C	A	B	C
					U				1975	1985	1985
									UNITS/YR		
INDUSTRIAL SURFACE COATING											
PET REF - MISC PT SOURCE	0.82	LB/TON	5.340	0.655	6.550	0.042S	0.078C	0.078C	867.	364.	971.
PETRLM STRG CRD 8IL BRTHNG	0.85	LB/TON	0.586	0.293	0.586	0.031S	0.042C	0.042C	4937.	1530.	2527.
EXIST.	1.00	LB/BARREL	2.290	1.560	2.880	0.031S	0.042C	0.042C	589.	183.	300.
NEW.	1.00	LB/BARREL	1.560								
DEGREASING											
PETR. - REFUELING	0.82	LB/TON	1.150	0.150	1.500	0.042S	0.032C	0.032C	1626.	683.	602.
INTERNAL COMBUSTION ENGS SPKIGN	0.85	LB/BARREL	0.504	0.076	0.504	0.031S	0.035C	0.035C	2950.	915.	1195.
PETRLM STRG GASOLINE BRTHNG	0.58	LB/TON	56.000	0.000	56.000	0.020S	0.087S	0.087S	28.7	5.7	25.0
EXIST.	1.00	LB/BARREL	1.490	0.290	2.850	0.031S	0.035C	0.035C	477.	148.	196.
NEW.	1.00	LB/BARREL	0.290								
CARBON BLACK - FURNACE PROCESS											
AMMONIA - REGENERATOR & C9 ABSORBER	0.77	LB/TON	570.000	0.570	570.000	0.045S	0.025C	0.025C	2.0	0.89	0.56
AMMONIA - METHANATOR PLANT	0.83	LB/TON	90.000	0.450	90.000	0.045S	0.090C	0.090C	11.1	5.0	15.2
PETR - SERVICE STATIONS	0.83	LB/TON	90.000	0.450	90.000	0.045S	0.090C	0.090C	11.1	5.0	15.2
PETRLM STRG CRD 8IL WRKNG	0.85	LB/BARREL	0.229	0.034	0.378	0.031S	0.035C	0.035C	2950.	915.	1195.
EXIST.	0.85	LB/BARREL	0.071	0.048	0.084	0.031S	0.042C	0.042C	6000.	1860.	3054.
NEW.	0.85	LB/BARREL	0.048								
INTERNAL COMB ENGS DIESEL DUALFUEL											
BRCHARD HEATERS	0.58	LB/TON	31.300	30.300	31.300	0.020S	0.028S	0.028S	18.0	3.6	5.0
ETHYLENE OXIDE - AIR OXIDATION	1.00	LB/TON	9.200	0.000	9.200	0.033S	0.028S	0.028S	60.0	19.8	16.8
CRY CLEANING	0.87	LB/TON	392.000	3.920	392.000	0.045S	0.075C	0.075C	1.7	0.76	1.8
PETR. - TANKS - DR - BREATH	1.00	LB/TON	258.000	9.000	258.000	0.050S	0.018C	0.018C	2.4	1.2	0.46
COKE OVENS - BY PRODUCT	1.00	LB/BARREL	0.431	0.286	0.593	0.031S	0.032C	0.032C	643.	199.	238.
PETRLM STRG JET FUEL BRTHNG	0.93	LB/TON	5.900	0.060	5.900	0.028S	0.010S	0.010S	75.5	21.1	7.5
EXIST.	1.00	LB/BARREL	1.000	0.650	1.400	0.031S	0.094C	0.094C	124.	38.4	181.
NEW.	1.00	LB/BARREL	0.650								

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES			GROWTH RATES			CAPACITY/PRODUCTION			C 1985		
			ALLOWABLE E	S	N	UNCONT E	U	P DECIMAL/YR	B	C	UNITS/YR		A 1975	B 1985
VEGETABLE OIL PRODUCTION	0.92	LB/TON	37.900		15.200	38.000		0.028S	0.027S	0.027S	E6 TONS	6.5	1.8	1.8
CORE OVENS	0.93	LB/TON	10.500		1.050	10.500		0.028S	0.035S	0.035S	E6 TONS	23.0	6.4	8.0
BOILERS 3-10 MM BTU/HR	0.25	LB/E6 BTU	0.042		0.000	0.042		0.037S	0.043C	0.043C	E12 BTU	26471.	9794.	13857.
WOOD PULPING KRAFT PROCESS	0.98	LB/TON	4.690		4.240	4.690		0.031S	0.012C	0.012C	E6 TONS	34.0	10.5	4.3
CHARCOAL														
BOILERS >250 MM BTU/HR	0.85	LB/TON	438.000		4.400	438.000		0.045S	0.043C	0.043C	E6 TONS	0.79	0.36	0.42
PETROLEM STRG GASOLINE WRKNG	0.58	LB/E6 BTU	0.019		0.000	0.019		0.050S	0.055C	0.055C	E12 BTU	28011.	14006.	19836.
EXIST. NEW.	0.85	LB/BARREL	0.071		0.012	0.116		0.031S	0.035C	0.035C	E6 BBL	2950.	915.	1211.
PET REF - VACUUM DIST.	0.85	LB/TON	0.130		0.000	0.130		0.031S	0.042C	0.042C	E6 TONS	1846.	572.	945.
PETROLEM STRG AV GS BRTHNG	1.00	LB/BARREL	2.060		1.350	2.850		0.031S	0.094C	0.094C	E6 BBL	37.0	11.5	53.9
EXIST. NEW.	1.00		1.350											
BOILERS 10-250 MM BTU/HR	0.32	LB/E6 BTU	0.045		0.000	0.045		0.050S	0.014C	0.014C	E12 BTU	19534.	9767.	2914.
GRAPHIC ARTS-GRAVURE	0.80	LB/TON	2300.000		2.300	2300.000		0.045S	0.050C	0.050C	E6 TONS	0.12	0.053	0.074
BOILERS <3 MM BTU/HR	0.30	LB/E6 BTU	0.019		0.000	0.019		0.020S	0.029C	0.029C	E12 BTU	24572.	4914.	8131.
GRAPHIC ARTS FLEXOGRAPHY	0.80	LB/TON	4800.000		48.000	4800.000		0.045S	0.050C	0.050C	E6 TONS	0.051	0.023	0.032
DIRECT FIRING OF MEAT	0.62	LB/TON	6136.000		2636.000	6136.000		0.050S	0.033S	0.033S	E6 TONS	0.034	0.017	0.011
PETR. - TRANSFER - CRUDE	0.85	LB/BARREL	0.071		0.048	0.084		0.029S	0.042C	0.042C	E6 BBL	1440.	418.	737.
ASPHALT BATCHING	0.47	LB/TON	0.167		0.000	0.167		0.008S	0.050S	0.050S	E6 TONS	1480.	118.	740.
AUTOMOBILE ASSEMBLY	0.91	LB/PRD UNT	12.600		0.420	21.000		0.040S	0.029C	0.029C	E6 PU	10.6	4.2	3.5
GRAPHIC ARTS - LETTERPRESS	0.80	LB/TON	1500.000		15.000	1500.000		0.045S	0.050C	0.050C	E6 TONS	0.11	0.049	0.069
GRAPHIC ARTS - LITHOGRAPHY	0.80	LB/TON	2500.000		28.000	2800.000		0.045S	0.050C	0.050C	E6 TONS	0.063	0.028	0.040
PETR. - TRANSFER - GAS	0.85	LB/BARREL	0.071		0.012	0.116		0.042S	0.035C	0.035C	E6 BBL	1560.	651.	632.

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION ALLOWABLE E S	EMISSION RATES			GROWTH RATES DECIMAL/YR			UNITS/YR	INDUSTRY CAPACITY/PRODUCTION		
				E	N	U	P	B	P		A	B	C
GRAPHIC ARTS - METAL DECORATING	0.80	LB/TON	3200.000	37.000	3700.000	0.0455	0.050C	E6 TONS	0.046	0.021	0.029	0.021	0.029
PAINT	0.85	LB/TON	30.000	0.300	30.000	0.067S	0.026C	E6 TONS	4.9	3.3	1.5	3.3	1.5
BEER	0.81	LB/TON	10.900	0.109	10.900	0.040S	0.070C	E6 TONS	7.2	2.9	7.0	2.9	7.0
FORMALDEHYDE	0.72	LB/TON	22.200	0.280	27.500	0.045S	0.094C	E6 TONS	4.2	1.9	6.1	1.9	6.1
ACRYLONITRILE	0.90	LB/TON	91.000	0.165	330.000	0.045S	0.095C	E6 TONS	0.83	0.37	1.2	0.37	1.2
PETRLM STRG JET FUEL	0.85	LB/BARREL	0.090	0.054	0.116	0.031S	0.094C	E6 BBL	276.	85.6	402.	85.6	402.
EXIST- NEW- MUNICIPAL INCINERATOR	0.85	LB/BARREL	0.054	0.000	2.700	0.039S	0.046S	E6 TONS	32.5	12.7	14.9	12.7	14.9
PETR. - TANKS - KER - BREATH	0.56	LB/TON	2.700	0.000	2.700	0.039S	0.046S	E6 TONS	75.8	23.5	0.0	23.5	0.0
PETRLM STRG SPC NAP BRTHG	1.00	LB/BARREL	0.435	0.295	0.593	0.031S	0.000S	E6 BBL	18.2	5.6	1.3	5.6	1.3
EXIST- NEW- PHTHALIC ANHYDRIDE - 8-XYLENE	1.00	LB/BARREL	1.300	1.300	2.850	0.031S	0.007C	E6 BBL	0.42	0.084	0.48	0.084	0.48
ETHYLENE DICHLORIDE	0.78	LB/TON	86.600	5.000	130.000	0.020S	0.079C	E6 TONS	3.3	1.5	4.5	1.5	4.5
INDUSTRIAL COMMERCIAL INCINERATORS	0.62	LB/TON	19.600	0.140	140.000	0.045S	0.090C	E6 TONS	32.6	12.7	60.0	12.7	60.0
POLYVINYL CHLORIDE	0.38	LB/TON	2.880	0.000	2.880	0.039S	0.110C	E6 TONS	2.7	0.0055	3.1	0.0055	3.1
POLYETHYLENE - LOW DENSITY	0.82	LB/TON	9.600	0.085	17.000	0.000S	0.078C	E6 TONS	4.8	0.29	17.5	0.29	17.5
EXIST- NEW- PETR. - TRANSFER - JETFUEL	0.88	LB/TON	4.200	0.250	25.000	0.006S	0.165C	E6 TONS	146.	60.9	213.	60.9	213.
PALEIC ANHYDRIDE BENZENE OXID.	0.85	LB/BARREL	0.090	0.054	0.116	0.042S	0.094C	E6 BBL	0.23	0.10	0.31	0.10	0.31
POLYETHYLENE - HIGH DENSITY	1.00	LB/TON	147.000	0.172	172.000	0.045S	0.090C	E6 TONS	1.9	0.0	7.6	0.0	7.6
SYNTHETIC RESINS ACRYLIC	1.00	LB/TON	7.400	0.500	50.000	0.000S	0.176C	E6 TONS	0.58	0.26	1.9	0.26	1.9
PRINTING INK	0.87	LB/TON	36.000	2.400	240.000	0.045S	0.154C	E6 TONS	0.43	0.19	0.27	0.19	0.27
VARNISH	0.83	LB/TON	48.000	12.000	120.000	0.045S	0.050C	E6 TONS	1.3	0.86	0.38	0.86	0.38
	0.85	LB/TON	34.900	0.679	67.900	0.067S	0.026C	E6 TONS					

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		UNCONT E	GROWTH RATES DECIMAL/YR			UNITS/YR	INDUSTRY CAPACITY/PRODUCTION		
			ALLOWABLE E S	EMISSION E N		P	B	P		A	B	C
										1975	1985	1985
MINERAL WOOD												
DEEP FAT FRYING	0-82	LB/TON	2-020	0-870	2-020	0-029S	0-020S	0-020S	E6 TONS	8-4	2-5	1-7
PETRLM STRG AV GS WRKNG	0-81	LB/TON	6-240	0-078	7-750	0-028S	0-043C	0-043C	E6 TONS	2-6	0-74	1-4
EXIST- NEW-	0-85 0-85	LB/BARREL	0-090 0-055	0-055	0-116	0-031S	0-094C	0-094C	E6 BBL	67-0	20-8	97-5
STYRENE - BUTADIENE RUBBER												
0-75	LB/TON	4-200	3-100	0-003S	4-200	0-003S	0-020C	0-020C	E6 TONS	2-3	0-070	0-51
POLYSTYRENE	0-88	LB/TON	4-200	0-120	11-700	0-005S	0-075C	0-075C	E6 TONS	2-3	0-12	2-5
FLYWOOD-VENEER	0-95	LB/TON	0-001	0-000	0-001	0-050S	0-025C	0-025C	E6 TONS	22600-	11300-	6330-
SYNTHETIC FIBERS NYLON	0-72	LB/TON	7-000	0-350	7-000	0-045S	0-127C	0-127C	E6 TONS	1-7	0-76	3-9
SYNTHETIC RESINS PHENOLIC	0-80	LB/TON	5-760	0-075	7-500	0-005S	0-070C	0-070C	E6 TONS	1-1	0-055	1-1
PETR. - TRANSFER - AVGAS	0-85	LB/BARREL	0-090	0-055	0-116	0-042S	0-094C	0-094C	E6 BBL	35-6	14-8	51-8
PETRLM REFRY PRS GAS CO	0-85	LB/BARREL	33-000	0-000	33-000	0-031S	0-042C	0-042C	E12 BTU	0-23	0-070	0-12
ASPHALT BLOWING	0-90	LB/TON	2-500	0-025	2-500	0-042S	0-025S	0-025S	E6 TONS	3-1	1-3	0-79
SYNTHETIC RESINS UREA-MELANINE	0-80	LB/TON	5-760	0-075	7-500	0-005S	0-073C	0-073C	E6 TONS	0-74	0-037	0-76
TEXTILE - HEAT SETTING	0-86	LB/TON	3-054	1-486	10-180	0-042S	0-081C	0-081C	E6 TONS	0-79	0-33	0-93
WISKEY	0-95	LB/PRD UNT	2-760	0-055	2-760	0-032S	0-060S	0-060S	E6 PU	1-3	0-42	0-78
PETRLM STRG SPC NAP WRKNG	0-85	LB/BARREL	0-090	0-056	0-116	0-031S	0-007C	0-007C	E6 BBL	33-0	10-2	2-4
EXIST- NEW-	0-85 0-85		0-056									
SYNTHETIC RESINS ABS-SAN	0-80	LB/TON	5-760	0-075	7-500	0-005S	0-072C	0-072C	E6 TONS	0-47	0-023	0-47
SYNTHETIC FIBERS ACETATE	0-93	LB/TON	7-000	0-350	7-000	0-045S	0-028C	0-028C	E6 TONS	0-43	0-19	0-14
BRICK & RELATED CLAY PRODUCTS	0-80	LB/TON	0-073	0-000	0-073	0-033S	0-027S	0-027S	E6 TONS	35-7	11-8	9-6
PETR. - TRANSFER - SP. NAP.	0-85	LB/BARREL	0-090	0-056	0-116	0-042S	0-007C	0-007C	E6 BBL	17-7	7-4	1-3
FIBERGLASS MANUF - WOOD	0-70	LB/TON	3-390	0-102	3-390	0-063S	0-042C	0-042C	E6 TONS	1-1	0-68	0-55

HYDROCARBONS

SUMMARY OF INPUT/OUTPUT VARIABLES
FOR MODEL IV

SOURCE	K	EMISSION UNITS	EMISSION RATES		GROWTH RATES DECIMAL/YR			CAPACITY/PRODUCTION		C 1985
			ALLOWABLE E S	EMISSION E N	UNCONT E U	P B	P C	A 1975	B 1985	
COFFEE ROASTING	0.85	LB/TON	1.100	0.005	1.100	0.040S	0.000S	1.5	0.62	0.0
SMOKED MEAT	0.81	LB/TON	0.350	0.150	0.350	0.040S	0.017C	3.6	1.4	0.66
TEXTILE - CARPET MFG	0.86	LB/TON	0.720	0.040	0.800	0.042S	0.053C	1.8	0.76	1.2
POLYPROPYLENE	0.78	LB/TON	0.590	0.003	0.700	0.003S	0.150C	1.6	0.048	4.9
AUTOBODY INCINERATORS	0.90	LB/PRD UNIT	1.000	0.460	1.000	0.039S	0.280S	0.29	0.11	0.82
TEXTILE - TEXTURIZING	0.86	LB/TON	0.920	0.230	4.600	0.042S	0.023C	0.87	0.36	0.22
SYNTHETIC RESINS ALKYL	0.68	LB/TON	1.710	0.017	1.710	0.045S	0.015C	0.53	0.24	0.085
SEC ZINC SWEAT	0.82	LB/TON	2.810	0.003	2.810	0.035S	0.039C	0.20	0.069	0.091
LEAD ACID BATTERY PLANTS	0.76	LB/PRD UNIT	0.007	0.000	0.009	0.040S	0.050C	80.0	32.0	50.3
PATHOLOGICAL INCINERATOR	0.34	LB/TON	3.900	0.040	3.800	0.039S	0.026C	0.13	0.051	0.038
SEC MAGNESIUM	0.82	LB/TON	3.390	0.003	3.390	0.035S	0.016C	0.017	0.0061	0.0030

HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					TONS/YEAR T - I S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985	
INDUSTRIAL SURFACE COATING 4937.		1899.	1101.	1351.	4025.	1460.	0.877
PET REF - MISC PT SOURCE 1859.		1230.	848.	848.	1859.	1354.	0.500
PETRLM STRG CRD OIL BATHING 1280.		674.	465.	585.	842.	842.	-0.000
DEGREASING							
PETR. - REFUELING 1370.		767.	445.	580.	1051.	524.	0.870
INTERNAL COMBUSTION ENGS SPKIGN 888.		632.	436.	436.	886.	504.	0.849
PETRLM STRG GASOLINE BATHING 873.		467.	373.	373.	873.	373.	1.000
CARBON BLACK - FURNACE PROCESS 959.		355.	245.	469.	295.	295.	0.000
AMMONIA - REGENERATOR & CO ABSORBER 558.		436.	240.	240.	558.	240.	0.999
AMMONIA - METHANATOR PLANT 981.		415.	228.	228.	981.	232.	0.995
PETR - SERVICE STATIONS 981.		415.	228.	228.	981.	232.	0.995
PETRLM STRG CRD OIL WORKING 666.		287.	198.	327.	403.	229.	0.852
INTERNAL COMB ENGS DIESEL DUALFUEL 323.		181.	125.	148.	225.	225.	0.000
ORCHARD HEATERS 209.		163.	130.	130.	209.	206.	0.032
ETHYLENE OXIDE - AIR OXIDATION 353.		276.	185.	185.	353.	185.	1.000
DRY CLEANING 597.		290.	159.	159.	597.	164.	0.990
PETRO. - TANKS - DB - BREATH 364.		304.	152.	152.	364.	160.	0.965
COKE OVENS - BY PRODUCT 261.		139.	95.6	132.	190.	158.	0.336
PETRLM STRG JET FUEL BATHING 228.		207.	149.	149.	228.	150.	0.990
VEGETABLE OIL PRODUCTION 213.		62.0	42.8	59.9	114.	114.	0.000
		114.	81.8	82.1	144.	107.	0.599

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS			T N 1985	T S N 1985	T - T S N 1985	1 - E / E N S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985				
CORE OVENS									
* BOILERS .3-10 MM BTU/HR	152.	112.	80.9	80.9	152.	87.9	53600.	0.900	
WOOD PULPING KRAFT PROCESS	212.	139.	87.6	87.6	212.	87.6	124000.	1.000	
CHARCOAL	88.0	78.1	53.9	53.9	88.0	84.8	3200.	0.096	
* BOILERS >250 MM BTU/HR	225.	148.	81.4	81.4	225.	82.8	142000.	0.990	
PETRLM STRG GASOLINE WCKNG	264.	154.	77.2	77.2	264.	77.2	186000.	1.000	
PET REF - VACUUM DIST.	205.	89.0	61.4	100.	72.3	72.3	0.0	0.000	
PETRLM STRG AV GS BRTHNG	154.	102.	70.4	70.4	154.	70.4	83700.	0.999	
* BOILERS 10-250 MM BTU/HR	129.	38.1	26.3	36.4	70.4	70.4	0.0	-0.000	
GRAPHIC ARTS-GRAVURE	162.	141.	70.3	70.3	162.	70.3	91200.	1.000	
* BOILERS <.3 MM BTU/HR	175.	108.	59.2	59.2	175.	59.3	116000.	0.999	
GRAPHIC ARTS FLEXOGRAPHY	93.2	70.0	56.0	56.0	93.2	56.0	37100.	1.000	
DIRECT FIRING OF HEAT	159.	97.9	53.9	53.9	159.	54.9	104000.	0.990	
PETR. - TRANSFER - CRUDE	85.3	64.1	32.1	32.1	85.3	54.9	30300.	0.570	
* ASPHALT BATCHING	77.7	43.5	30.9	36.5	65.7	54.4	11200.	0.324	
AUTOMOBILE ASSEMBLY	87.1	58.1	53.4	53.4	87.1	53.4	33600.	1.000	
GRAPHIC ARTS - LETTERPRESS	135.	60.8	36.5	60.8	80.9	37.9	42900.	0.967	
GRAPHIC ARTS - LITHOGRAPHY	108.	66.0	36.3	36.3	108.	37.0	70400.	0.990	
PETR. - TRANSFER - GAS	115.	63.0	34.6	38.8	103.	35.4	67200.	0.989	
GRAPHIC ARTS - METAL DECORATING	108.	47.1	27.4	44.8	66.1	33.8	32300.	0.837	
	111.	58.9	32.4	37.4	95.9	33.1	62700.	0.988	

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	EMISSIONS					T N 1985	T S N 1985	TONS/YEAR T - T S N 1985	1 - E / E N S
	T U 1985	T A 1975	T E 1985	1000 TONS/YEAR T UE 1985	T S 1985				
PAINT	81.5	62.9	20.9	20.9	81.5	21.5	59900.	0.990	
BEER	62.5	31.8	19.1	19.1	62.5	19.5	43000.	0.390	
FORMALDEHYDE	102.	33.6	18.5	22.9	82.6	19.3	63300.	0.987	
ACRYLONITRILE	305.	34.0	18.7	67.8	84.2	18.8	65400.	0.998	
PETRLM STRG JET FUEL WRKING	33.4	10.6	7.3	9.4	18.5	18.5	0.0	0.000	
* MUNICIPAL INCINERATOR	35.9	24.6	15.0	15.0	35.9	15.0	20800.	1.000	
PETR. - TANKS - KER - BREATH	22.5	16.5	11.4	15.5	16.5	14.8	1600.	0.322	
PETRLM STRG SPC NAP BRTHNG	27.8	12.2	8.4	17.9	12.9	12.9	0.0	-0.000	
PTHALIC ANHYDRIDE - 9-XYLENE	45.4	14.2	11.3	17.0	30.3	12.4	17800.	0.942	
ETHYLENE DICHLORIDE	339.	20.1	11.0	78.8	47.5	11.3	36100.	0.993	
* INDUSTRIAL COMMERCIAL INCINERATORS	50.7	17.8	10.9	10.9	50.7	10.9	39700.	1.000	
POLYVINYL CHLORIDE	40.5	10.8	10.8	19.1	22.9	10.9	11900.	0.991	
POLYETHYLENE - LOW DENSITY	246.	9.0	8.4	50.1	41.3	10.4	30800.	0.940	
PETR. - TRANSFER - JET FUEL	17.7	5.6	3.3	4.2	13.7	9.5	4100.	0.400	
MALEIC ANHYDRIDE BENZENE OXID.	46.8	16.9	9.3	10.9	40.0	9.3	30600.	0.999	
POLYETHYLENE - HIGH DENSITY	238.	7.0	7.0	47.0	35.2	8.9	26300.	0.932	
SYNTHETIC RESINS ACRYLIC	255.	9.1	5.0	33.5	38.2	7.2	31000.	0.933	
PRINTING INK	34.6	8.5	4.7	11.7	13.9	7.0	6800.	0.750	
VARNISH	48.4	19.2	6.4	12.4	24.9	6.7	18100.	0.981	
MINERAL WOOL	8.4	7.0	4.9	4.9	8.4	6.4	1900.	0.569	

HYDROCARBONS

SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	EMISSIONS				T N 1985	TNS/YEAR T - T S N 1935	1 - E / E N S
		T A 1975	T E 1985	1000 TNS/YEAR T UE 1985	T S 1985			
DEEP FAT FRYING	12.6	6.7	4.8	6.0	10.2	4.9	5200.	0.988
PETRLM STRG AV GS WRKNG	8.1	2.6	1.8	2.3	4.5	4.5	0.0	0.000
STYRENE - BUTADIENE RUBBER	4.5	3.7	3.6	3.6	4.5	4.3	240.	0.262
POLYSTYRENE	24.9	4.3	4.1	11.5	9.0	4.3	4600.	0.971
PLYWOOD-VENEER.	10.3	8.1	4.0	4.0	10.3	4.1	6200.	0.990
SYNTHETIC FIBERS NYLON	14.2	4.3	2.4	2.4	14.2	2.9	11200.	0.950
SYNTHETIC RESINS PHENOLIC	6.5	2.5	2.4	3.1	5.0	2.4	2500.	0.987
PETR. - TRANSFER - AVGAS	4.3	1.4	0.79	1.0	3.3	2.4	990.	0.389
PETRLM REFINRY PRS GAS C8	4.8	3.2	2.2	2.2	4.8	2.2	2600.	1.000
ASPHALT BLOWING	4.4	3.5	2.1	2.1	4.4	2.1	2300.	0.990
SYNTHETIC RESINS UREA-MELANINE	4.5	1.7	1.6	2.1	3.4	1.6	1800.	0.987
TEXTILE - HEAT SETTING	7.6	1.0	0.61	2.0	2.3	1.4	850.	0.513
WHISKEY	2.7	1.7	1.2	1.2	2.7	1.2	1500.	0.980
PETRLM STRG SPC MAP WRKNG	1.7	1.3	0.87	1.1	1.2	1.2	0.0	0.000
SYNTHETIC RESINS ABS-SAN	2.8	1.1	1.0	1.3	2.2	1.0	1100.	0.987
SYNTHETIC FIBERS ACETATE	1.8	1.4	0.77	0.77	1.8	0.82	1000.	0.950
* BRICK & RELATED CLAY PRODUCTS	1.3	1.0	0.69	0.69	1.3	0.69	620.	1.000
PETR. - TRANSFER - SP. NAP.	0.94	0.68	0.39	0.51	0.73	0.60	120.	0.378
FIBERGLASS MANUF - WOOL	1.9	1.3	0.44	0.48	1.9	0.53	1400.	0.970
COFFEE ROASTING	0.72	0.72	0.43	0.43	0.72	0.44	280.	0.995

HYDROCARBONS
SUMMARY OF OUTPUT VARIABLES
FOR MODEL IV

SOURCE	T U 1985	T A 1975	EMISSIONS				TONS/YEAR T-S-N 1985	I-E/E N-S
			T E 1985	1000 TONS/YEAR T UE 1985	T S 1985	T N 1985		
SMOKED MEAT	0.60	0.51	0.31	0.31	0.60	0.43	170.	0.571
TEXTILE - CARPET MFG	1.1	0.57	0.33	0.37	0.95	0.37	580.	0.944
POLYPROPYLENE	1.8	0.37	0.36	0.42	1.5	0.36	1100.	0.994
AUTOMOBILE INCINERATORS	0.50	0.13	0.080	0.080	0.50	0.27	220.	0.540
TEXTILE - TEXTURIZING	2.0	0.34	0.20	1.00	0.43	0.26	170.	0.750
SYNTHETIC RESINS ALKYL	0.36	0.31	0.17	0.17	0.36	0.17	180.	0.990
SEC ZINC SWEAT	0.33	0.23	0.15	0.15	0.33	0.15	180.	0.999
LEAD ACID BATTERY PLANTS	0.45	0.21	0.12	0.16	0.34	0.13	230.	0.945
PATHOLOGICAL INCINERATOR	0.11	0.084	0.051	0.051	0.11	0.052	50.0	0.989
SEC MAGNESIUM	0.029	0.024	0.016	0.016	0.029	0.016	10.0	0.999